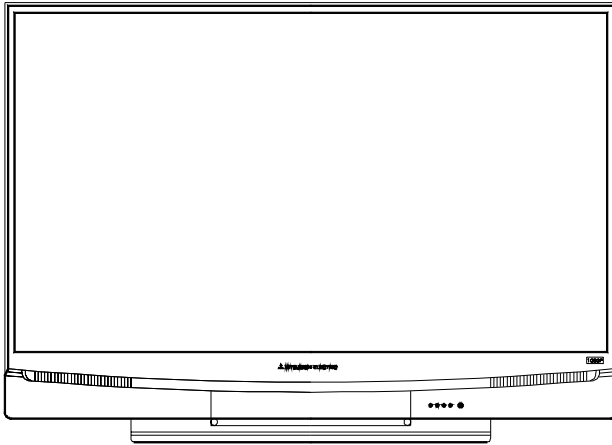




Service Manual

DLP PROJECTION HDTV

V39, V39+, V39++ & V39- CHASSIS



V39 Chassis

WD-60735

WD-65735

WD-73735

V39+ Chassis

WD-65736

WD-73736

V39++ Chassis

WD-65835

WD-73835

V39- Chassis

WD-60C8

WD-65C8

WD-73C8



CAUTION:

Before servicing this chassis, it is important that the service person read the "SAFETY PRECAUTIONS" and "PRODUCT SAFETY NOTICE" contained in this manual.

SPECIFICATIONS

- | | | | |
|--------------------------------|--|-----------------------|--|
| • Power Input | : AC 120V, 60Hz | • Input Level | : AUDIO IN JACK (RCA Type) |
| • Power Usage | : See table on page 5 | • (continued) | : -4.7dBm 43kΩ unbalanced |
| • Light Engine | : DLP™ (1920 x 1080 pixels)
5 Primary Color System | | : S-VIDEO IN JACK
(Y/C separate type)
Y: 1.0 Vp-p C: 0.286Vp-p (BURST)
75Ω unbalanced |
| • Light Source | : 180W | | : COMP / Y, Cr, Cb (RCA Type)
Y: 1.0 Vp-p Cr, Cb: 700mVp-p |
| • Channel Range | : Air VHF - 2~13, UHF - 14~69
Analog Cable - 1~125
Digital Cable - 1~135 | • Output Level | : AUDIO OUT JACK (RCA Type)
-4.7dBm 4.7kΩ unbalanced |
| • Antenna Input | : 2 RF 75Ω unbalanced | • Digital | : AC-3 Digital Audio Output
(RCA Type)
: HDMI™
: IR Blaster Output (V39+/ V39++ only)
: USB
: PC - use HMDI™\ |
| • Tuning | : 1 NTSC/ATSC/QAM | | : Wired IR Input (V39+/V39++ only) |
| • Cabinet Dimensions | : See Table on page 5 | | |
| • Weight | : See table on page 5 | | |
| • Speakers (4Ω 10W) | : Two 5½"x2¼" Oval | | |
| • Input Level | : VIDEO IN JACK (RCA Type)
1.0Vp-p 75Ω unbalanced | | |
| • Design specifications | are subject to change without notice. | | |

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INTRODUCTION

This service manual provides service instructions for the V39, V39-, V39+ and V39++ chassis types. The specific models for each chassis type, dimensions and weight are listed below. Service personnel should read this manual thoroughly before servicing these chassis.

DLP Models DIMENSIONS

MODEL	CHASSIS	WIDTH	HEIGHT	DEPTH	WEIGHT	POWER USAGE
WD-60735	V39	53.9 in	36.7 in	14.4 in	64.4 lbs	240W
WD-60C8	V39-	"	"	"	"	"
WD-65735	V39	58.2 in	39.5 in	15.3 in	72.2 lbs	270W
WD-65736	V39+	"	"	"	"	"
WD-65835	V39++	"	"	"	"	"
WD-65C8	V39-	"	"	"	"	"
WD-73735	V39	65.2 in	43.6 in	17.5 in	93 lbs	"
WD-73736	V39+	"	"	"	"	"
WD-73835	V39++	"	"	"	95.2 lbs	"
WD-73C8	V39-	"	"	"	"	"

This service manual includes:

1. Assembly and disassembly instructions for cabinet and chassis components.
2. Servicing of the Lenticular Screen and Fresnel Lens.
3. Servicing printed circuit boards (PCBs).
4. Electrical and Mechanical adjustments.
6. Chip parts replacement procedures.
7. Circuit path diagrams.

The parts list section of this service manual includes:

1. Cabinet and screen parts.
2. Electrical parts.

Schematic and block diagrams of the above listed models are included in this service manual for better understanding of the circuitry.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have special safety characteristics are identified in this service manual.

Electrical components having such features are identified by shading on the schematic diagram and parts list of this service manual. **Therefore, the replacement for any safety part should be identical in value and characteristics.**



No Lead Solder

The PWBs used in the V39, V39+, V39++ and V39- chassis are constructed using Lead-Free solder. **When servicing use only recommended Lead-Free solder (refer to page 33).**

SAFETY PRECAUTIONS

NOTICE: Observe all cautions and safety related notes located inside the receiver cabinet and on the receiver chassis.

WARNING:

1. Operation of this receiver outside the cabinet or with the cover removed presents a shock hazard from the receiver's power supplies. Work on the receiver should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment.
2. When service is required, observe the original lead dress. Where a short-circuit has occurred, replace those components that indicate evidence of overheating.

SAFETY PRECAUTION

To protect your eyes, do not look directly into the lamp, or light coming directly from the lamp, lens or mirror.

Leakage current check

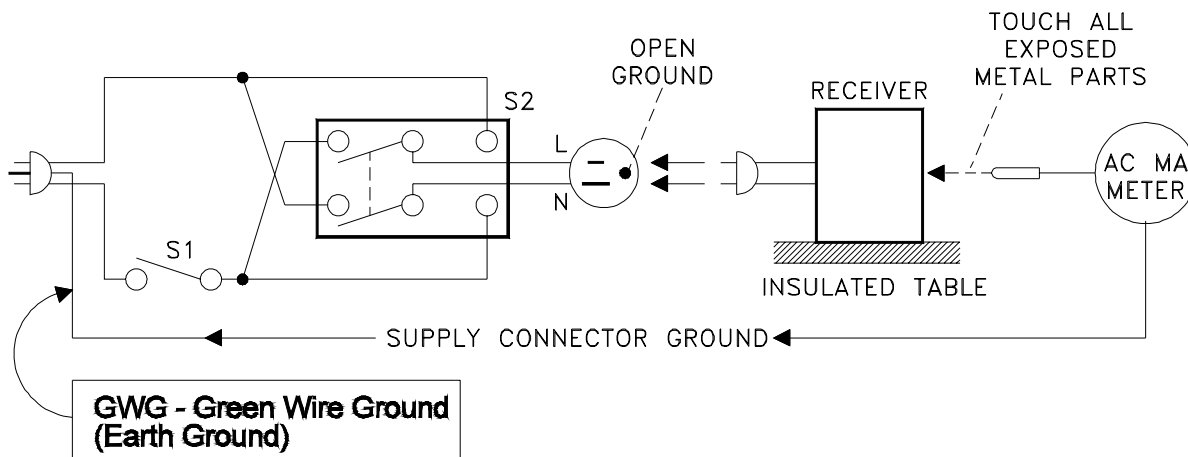
Before returning the receiver to the customer, it is recommended that leakage current be measured according to the following methods.

1. Cold Check

With the alternating current (AC) plug removed from the AC source, place a jumper across the two AC plug prongs. Connect one lead of an ohm meter to the AC plug and touch the other lead to each exposed metal part (i.e. antennas, handle bracket, metal cabinet, screw heads, metal overlay, control shafts, etc.), particularly any exposed metal part that has a return path to the chassis. The resistance of the exposed metal parts having a return path to the chassis **should be a minimum of 1Meg Ohm**. Any resistance below this value indicates an abnormal condition and requires corrective action.

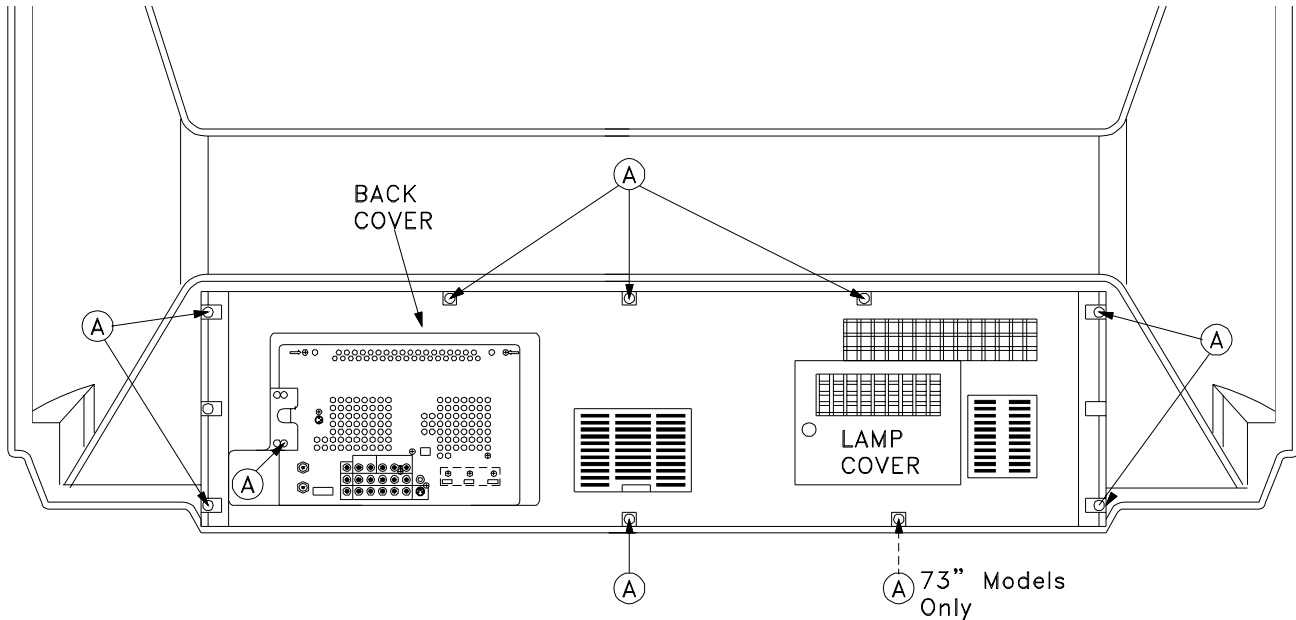
2. Hot Check ...Use the circuit shown below to perform the hot check test.

1. Keep switch S1 open and connect the receiver to the measuring circuit. Immediately after connection, and with the switching devices of the receiver in their operating positions, measure the leakage current for both positions of switch S2.
2. Close switch S1, energizing the receiver. Immediately after closing switch S1, and with the switching devices of the receiver in their operating positions, measure the leakage current for both positions of switch S2. Repeat the current measurements of items 1 and 2 after the receiver has reached thermal stabilization. **The leakage current must not exceed 0.5 milliampere (mA).**



DISASSEMBLY

Back Cover Removal



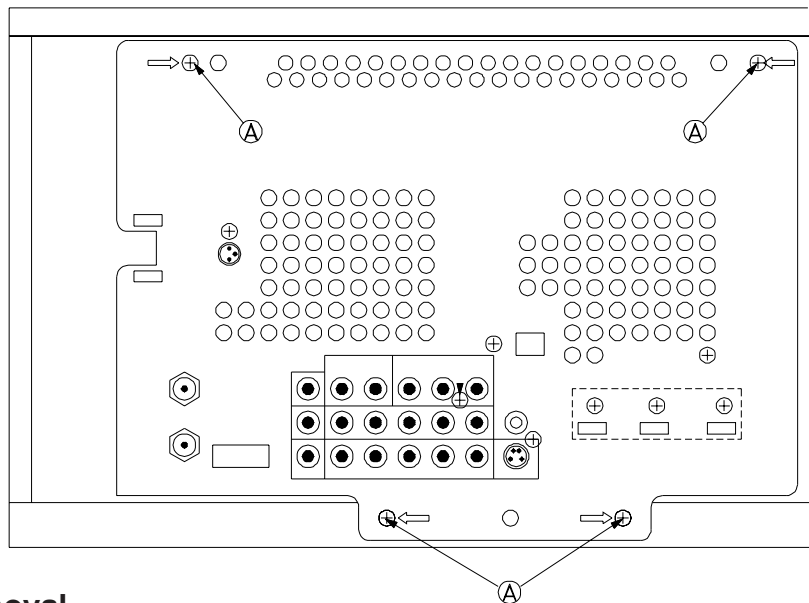
Back Cover Removal Procedure

- 1) Remove the Lamp Cover.
- 2) Remove screws (A) from the back cover.
- 3) Pull the back cover from the TV.

Back Cover Installation

Reverse the removal procedure but **install the Lamp Cover Last.**

Chassis Removal



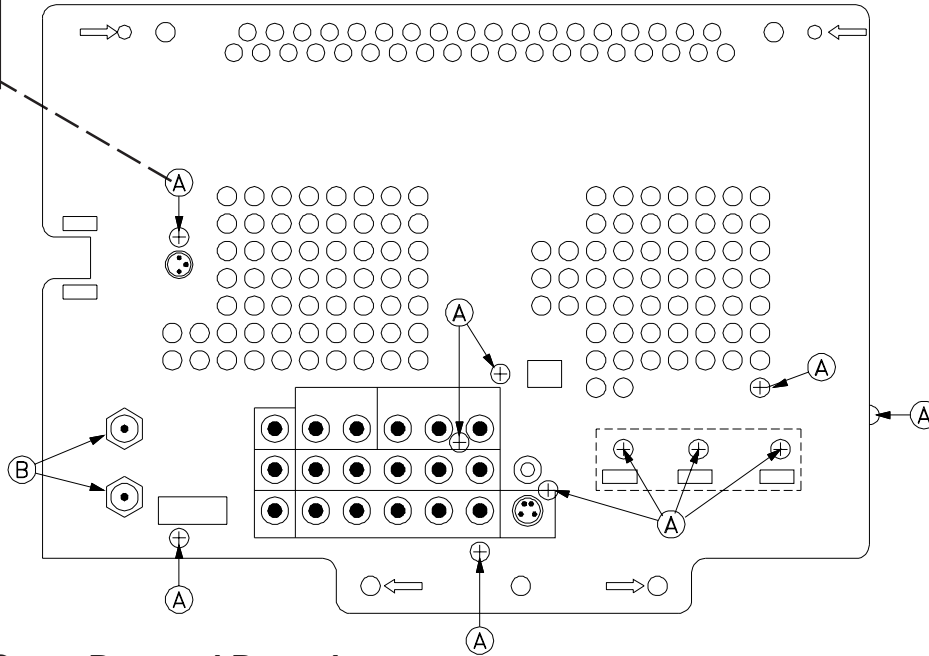
Chassis Removal

- 1) Remove four screws (A)
- 2) Disconnect all cables connecting to the chassis.
- 3) Carefully slide the chassis out of the Cabinet.

Chassis Disassembly

Rear Inputs Cover Removal

DO NOT use a power driver on this screw.



Rear Inputs Cover Removal Procedure

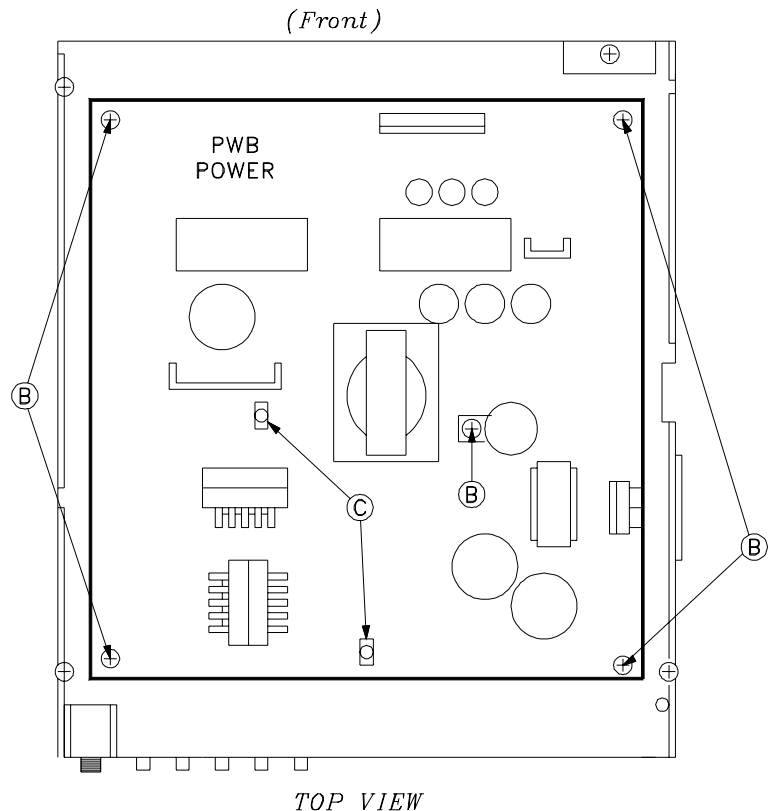
- 1) Remove 2 nuts (B) from the RF inputs.
- 2) Remove screws (A) that secure the cover to the chassis.
- 3) Pull the Inputs Cover from the chassis..

PWB-POWER Removal

- 1) Remove five screws (B)
- 2) Disconnect all cables to the PWB-POWER.
- 3) Release clips (C).
- 4) Carefully lift the PWB-POWER from the chassis box.

PWB-POWER Installation

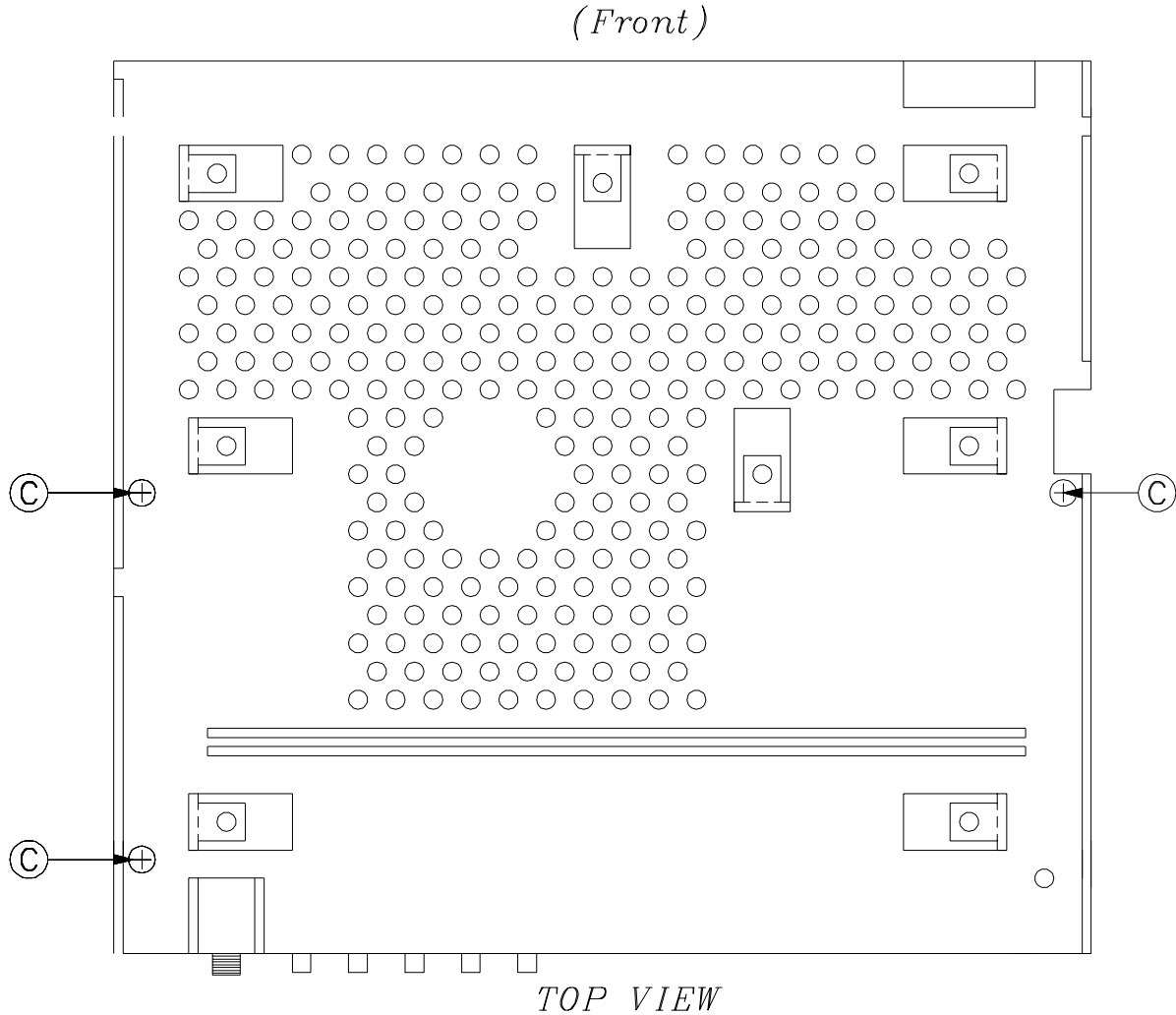
- 1) Reverse the removal procedure to install a new PWB-POWER.
- 2) No data transfer is required.



Chassis Disassembly (continued)

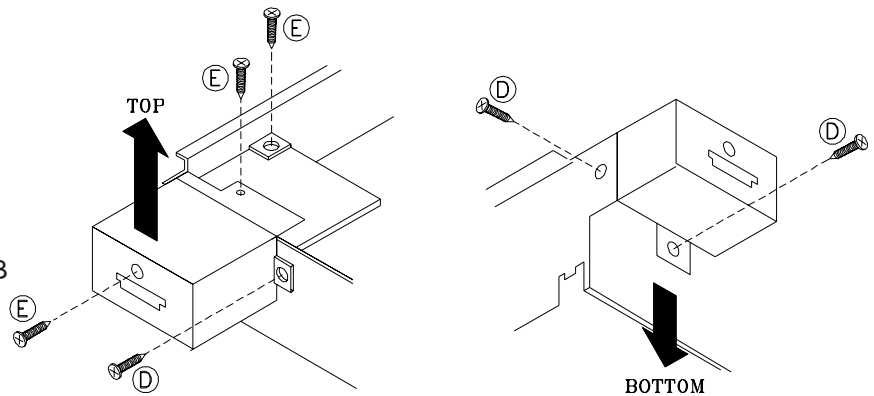
Chassis Cover Removal

- 1) Remove 3 screws (C).
- 2) Lift the Chassis Cover from the chassis box.



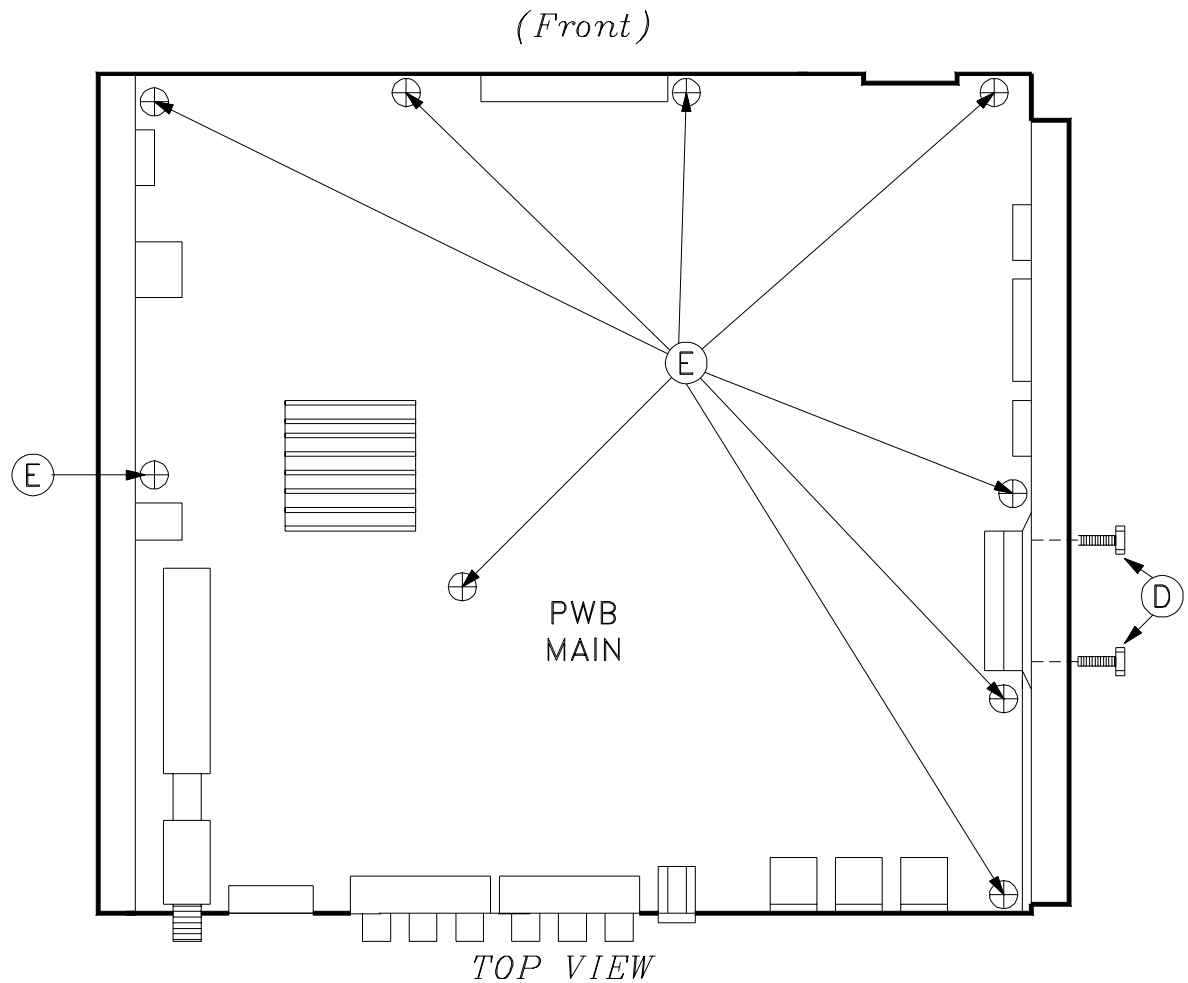
PWB-HDMI-FRONT Removal

- 1) Disconnect all cables to PWB-HDMI-FRONT
- 2) Remove three screws (D).
- 3) Carefully lift the PWB-HDMI-FRONT from the chassis box.
- 4) To remove PWB-HDMI, remove two screws (E) and slide the PWB out the rear of the shield.



PWB-MAIN Removal

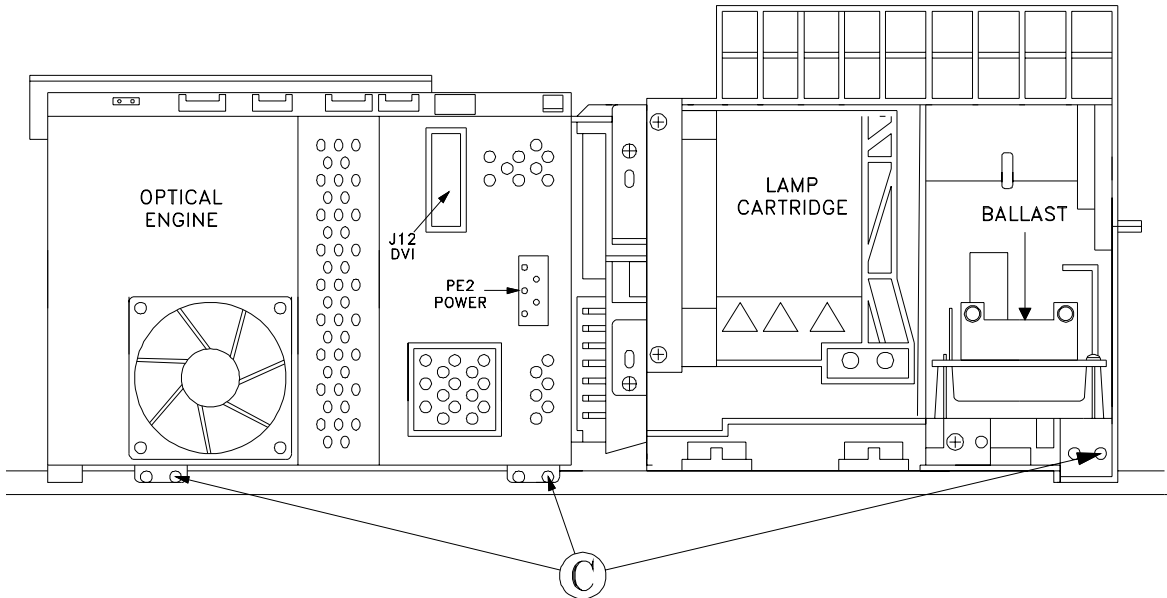
- 1) Disconnect all cables to PWB-MAIN
- 2) Remove two screws (D).
- 3) Remove screws (E).
- 4) Carefully lift the PWB-MAIN from the chassis box.



PWB-MAIN Installation

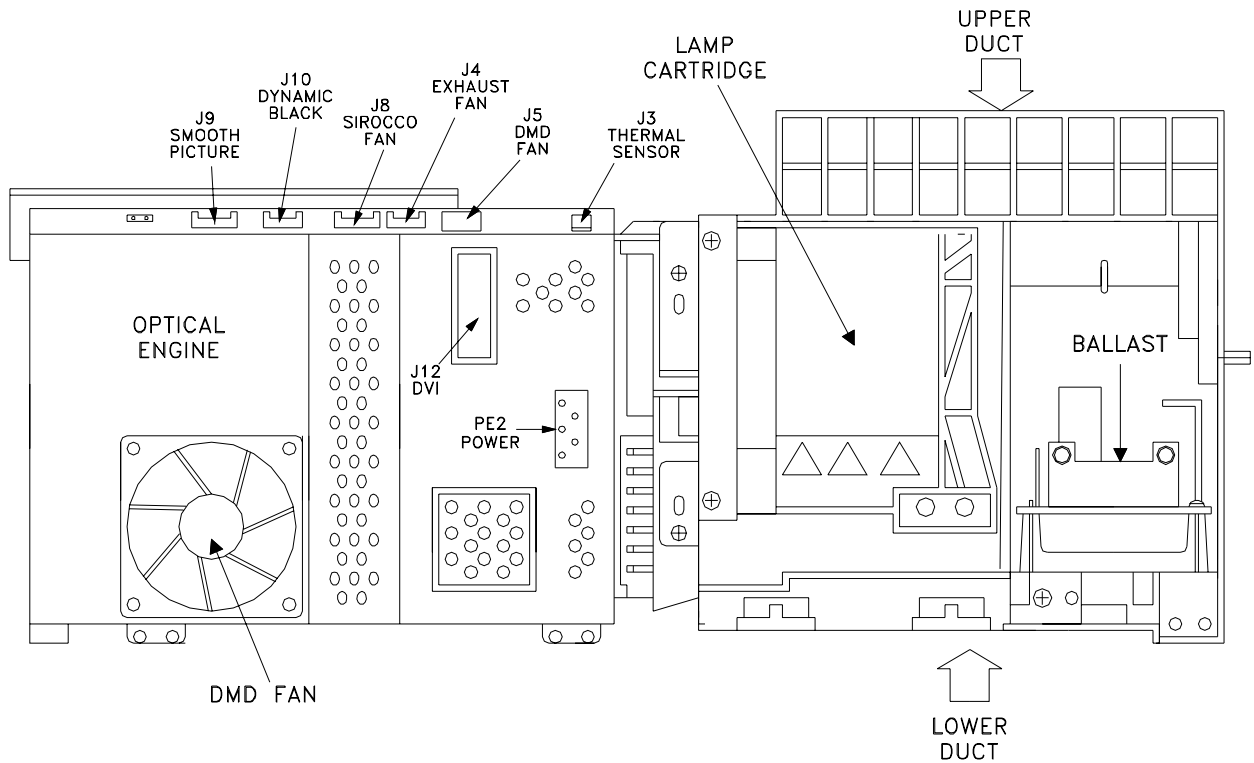
- 1) Install two screws (D) first
- 2) Then install screws (E).
- 3) Transfer Index Data from Engine
(refer to page 32)
- 4) Restore Alignment and White Balance Settings.
- 5) Restore Keystone Geometry from Backup.

OPTICAL ENGINE REMOVAL



OPTICAL ENGINE ASSEMBLY REMOVAL

- 1) Remove 3 screws (C) from the Optical Engine.
- 2) Disconnect all cables to the Optical Engine Assembly.
- 3) Carefully slide the Optical Engine assembly from the cabinet.



**OPTICAL ENGINE ASSEMBLY AND CONNECTOR LOCATIONS
(Rear View)**

OPTICAL ENGINE REMOVAL FROM THE DUCT ASSEMBLY

Upper Duct Assembly Removal Procedure

- 1) Disconnect the Ballast Fan and Lamp Fan from the back of the Engine (connectors J4 and J8) and loosen wiring harnesses from the looms, refer to page 11 for connector locations.
- 1) Loosen two screws (a) to remove the Lamp Cartridge, refer to *Figure 1*.
- 3) Remove 3 screws (b) from the top of the upper duct and release the 7 snaps shown in *Figure 2*.
- 4) Carefully remove the upper Duct assembly

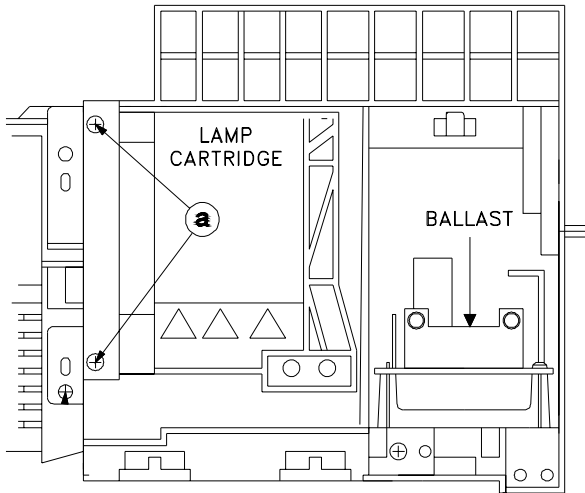


Figure 1: Duct Assembly (Rear View)

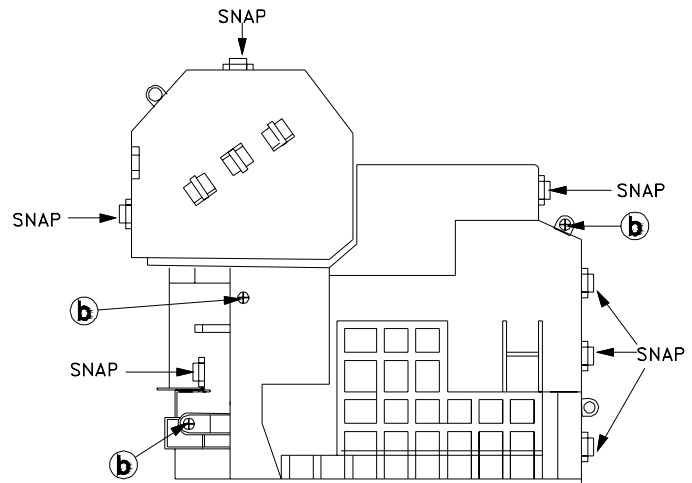


Figure 2: Duct Assembly (Top View)

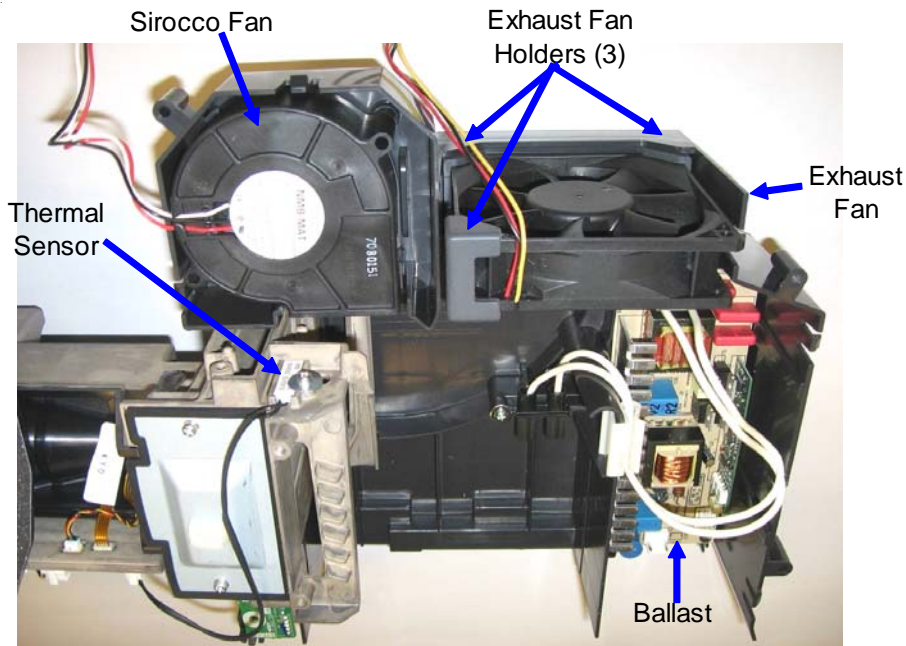


Figure 3: Lower Duct (Top View)

LOWER DUCT (Upper Duct Removed)

- 1) *Figure 3* shows the components in the Lower Duct.
- 2) The Sirocco Fan and Exhaust Fan can be replaced. The Engine and Upper Duct do not have to be removed to replace the Ballast.
- 3) If replacing the Engine, remove the Thermal Sensor from the Engine (1 screw) *Figure 3*.

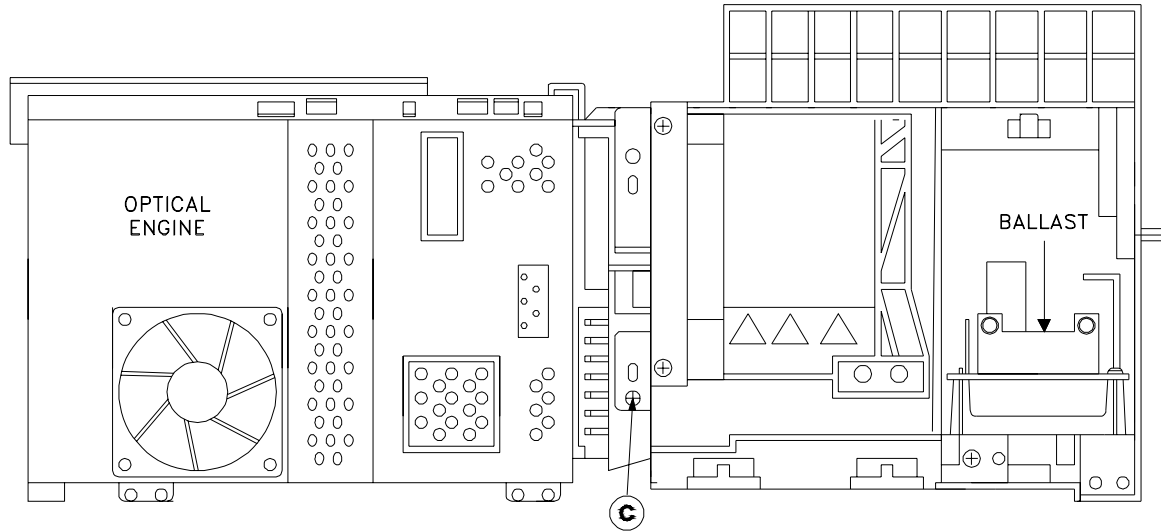


Figure 4: Lower Duct rear Mounting Screw

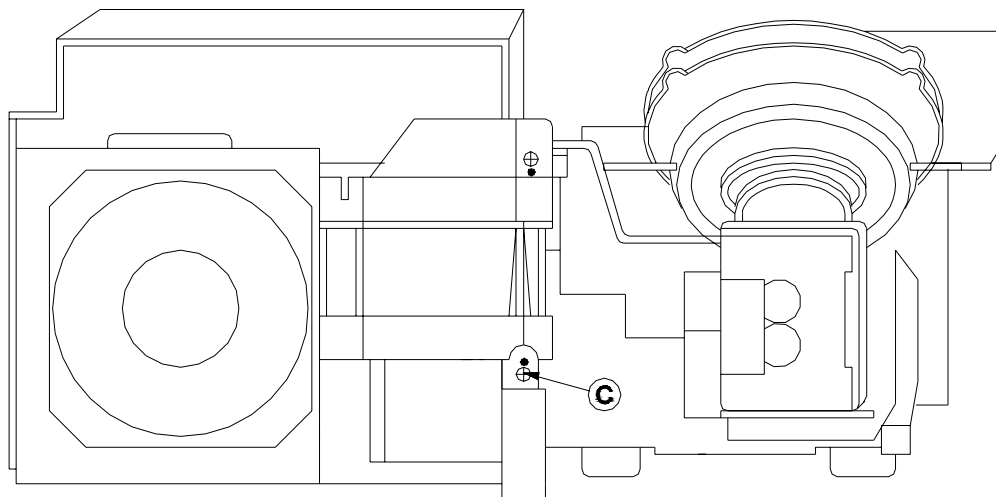


Figure 5: Lower Duct front Mounting Screw

LOWER DUCT REMOVAL

- 1) Remove the 2 screws (C) one in front and one in the rear of the lower duct, refer to *Figures 4 and 5*.
- 2) Carefully remove the lower duct from the Engine.

ENGINE REPLACEMENT (Reverse the Removal Procedure)

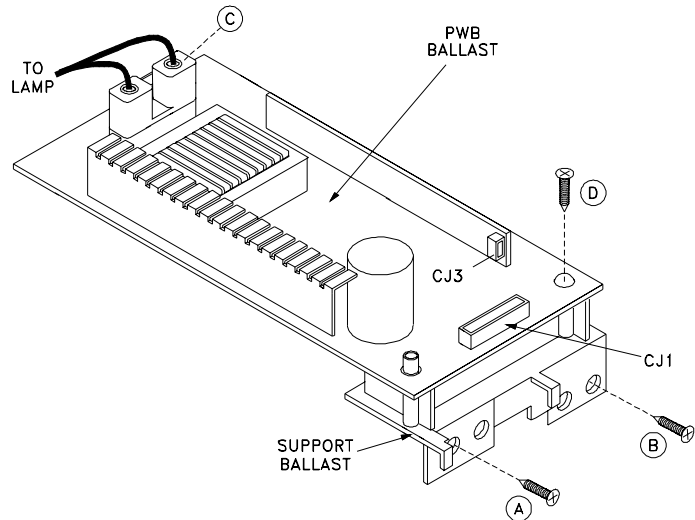
- 1) Install Duct assembly on the new Engine.
- 2) Remove the Protective Lens Cover from the face of the Lens.
- 3) Install the Engine Assembly in the cabinet.
- 4) After a new Engine is installed Load Index Delay Data from the Engine and Copy Settings to Backup (page 32).
- 5) Adjust Raster Centering (page 28) and Manual Keystone Geometry Alignment (page 29) if needed.

BALLAST ASSEMBLY REMOVAL

REMOVAL PROCEDURE

- 1) Remove screw (A) from the Ballast support and screw (B) if the Engine is still mounted in the cabinet.
- 2) Slide the Ballast Assembly out the rear of the Engine assembly and unplug the Lamp connector (C) at the Ballast.
- 3) Disconnect connectors CJ1 and CJ3.
- 4) Remove screw (D) to remove the PWB-BALLAST from the Ballast Support.

Reverse the procedure to install a new Ballast .



SCREEN REMOVAL & REPLACEMENT

WD-65835 & WD-73835 Only

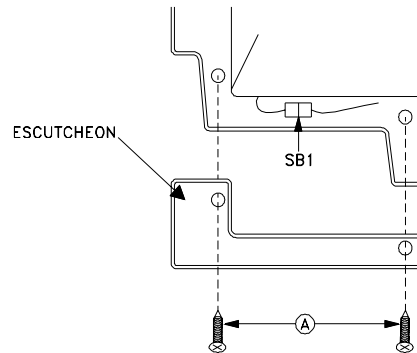
Escutcheon Removal

Before Removing the Screen Assembly

(V39++ Models Only)

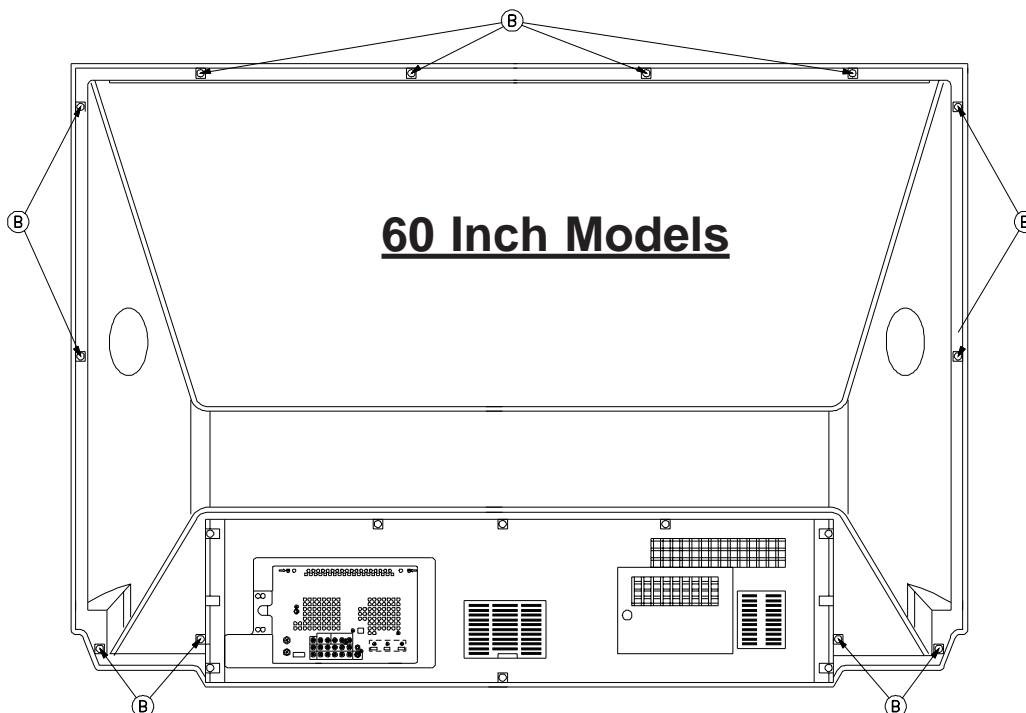
- 1) Remove 2 screws (A) at the lower rear corner on the right side.
- 2) Remove the small escutcheon cover to access the SB1 connector
- 3) Unplug the SB1 connector. This disconnects the PWB-SBL-R & PWB-SBL-L.

WD-65835 & WD-73835
LOWER CORNER

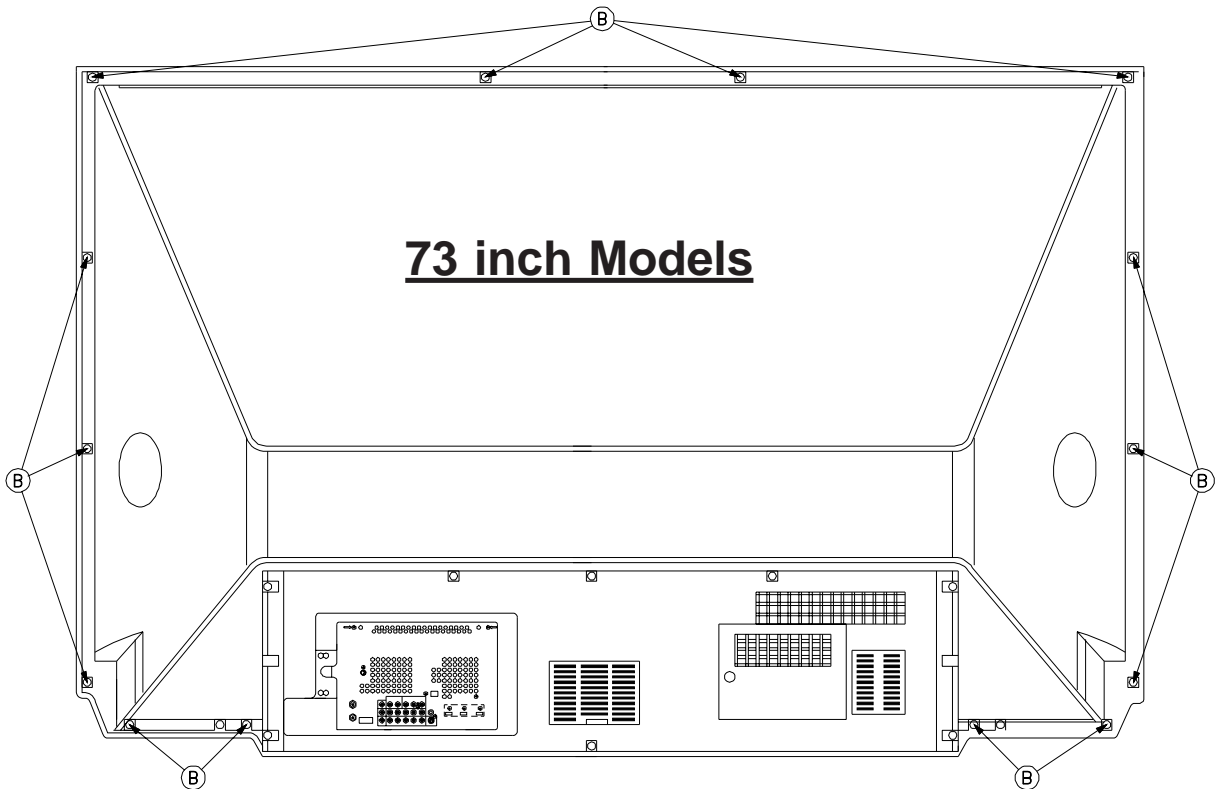
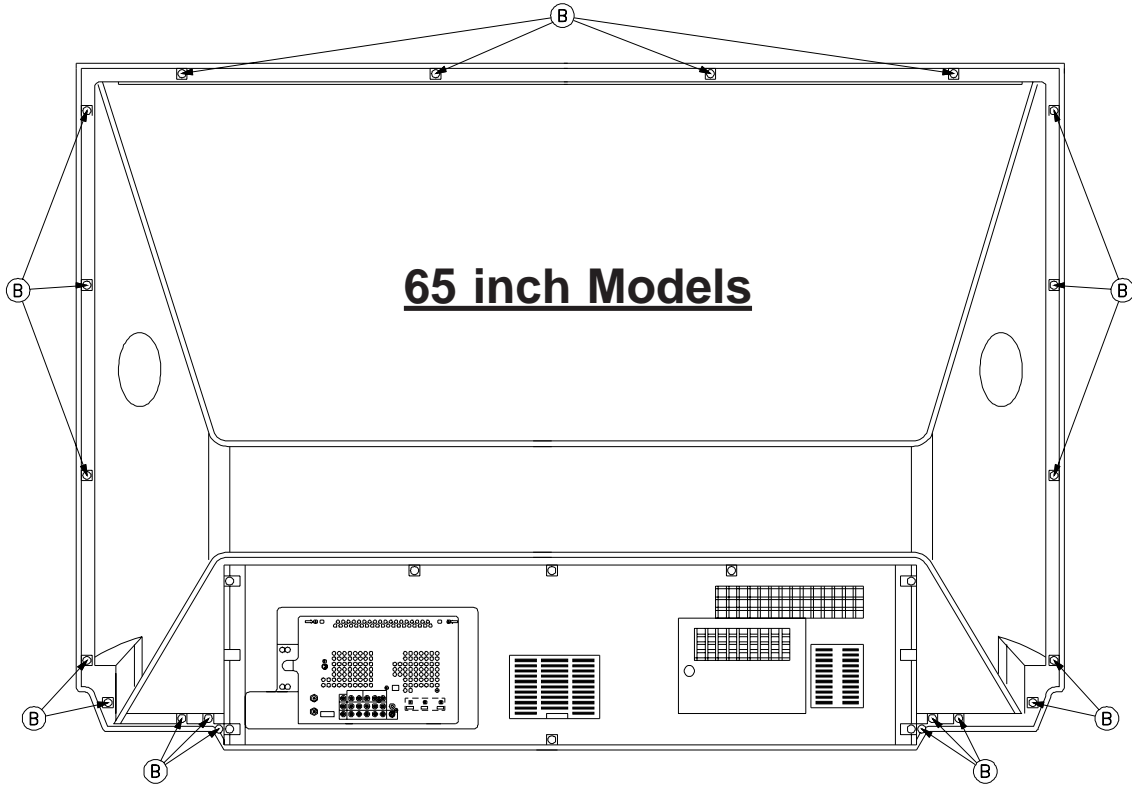


Screen Assembly (Bezel) Removal

- 1) Remove all rear screws (B) except one in an upper corner (To support the screen assembly while removing the front mounting screws).



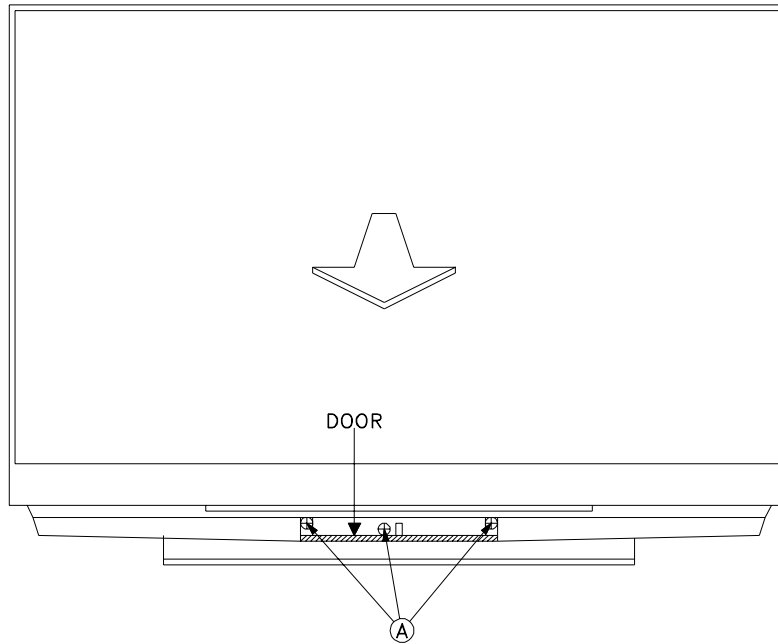
SCREEN REPLACEMENT (continued)



SCREEN REPLACEMENT (continued)

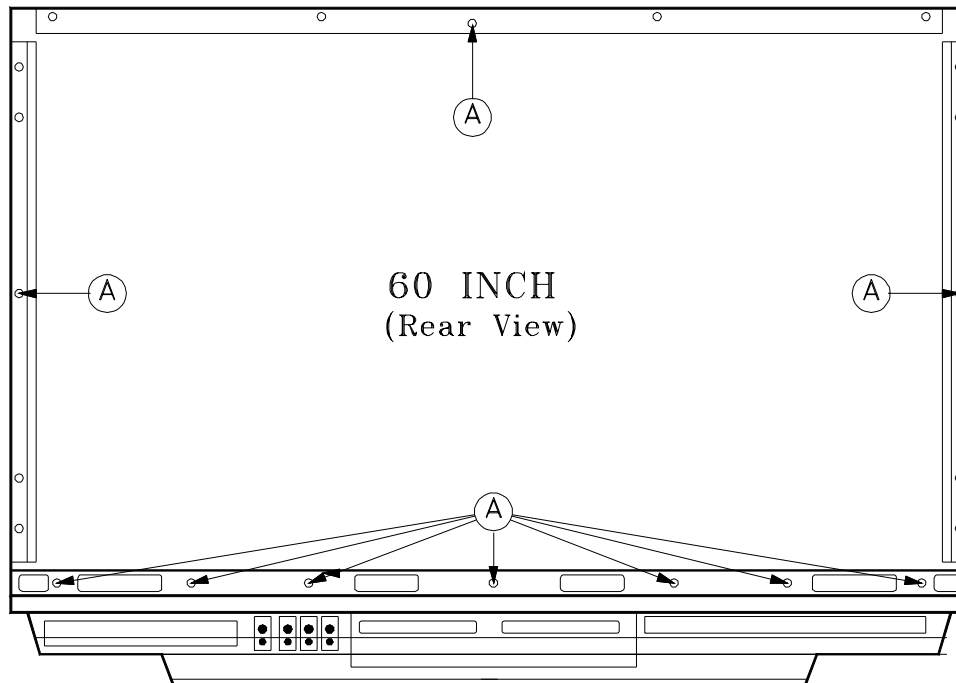
Screen Assembly Removal (continued)

- 2) Open the Control Panel door and remove two screws (A).
- 3) Remove the remaining rear screw in the upper corner and carefully pull the screen assembly from the cabinet.

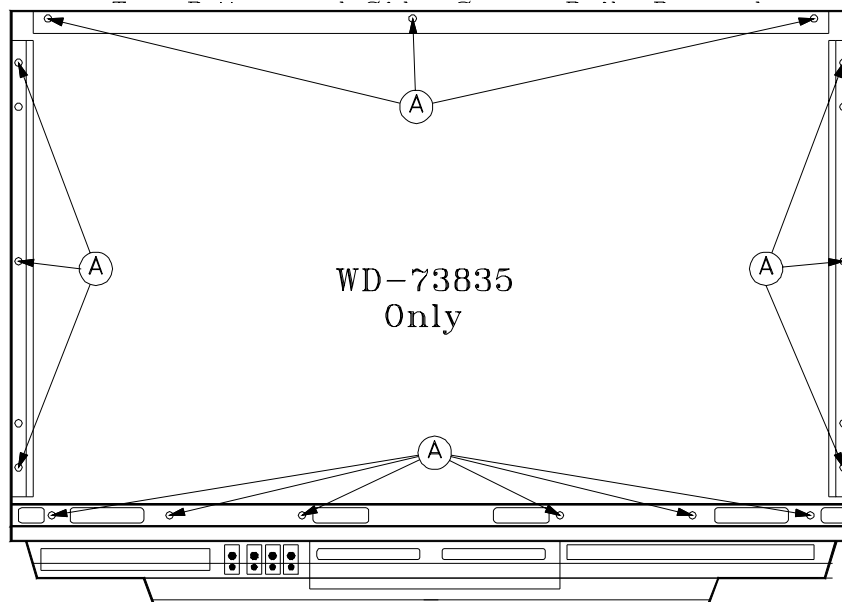
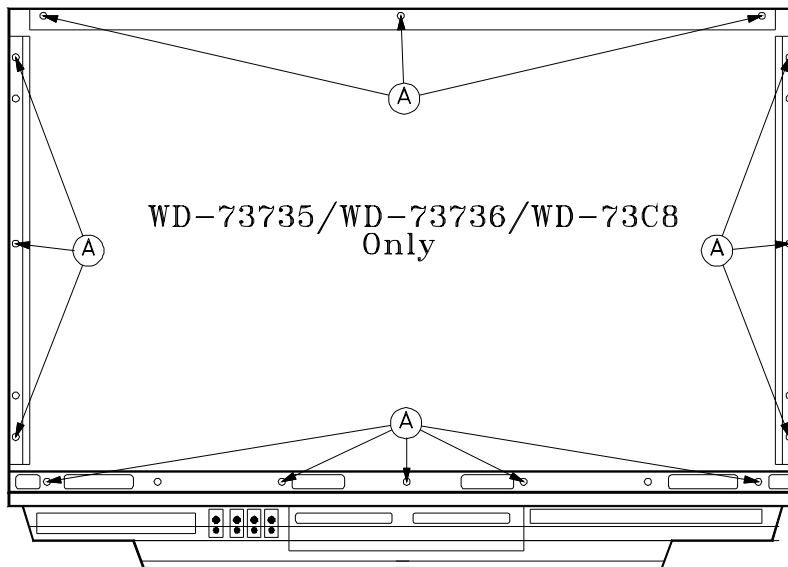
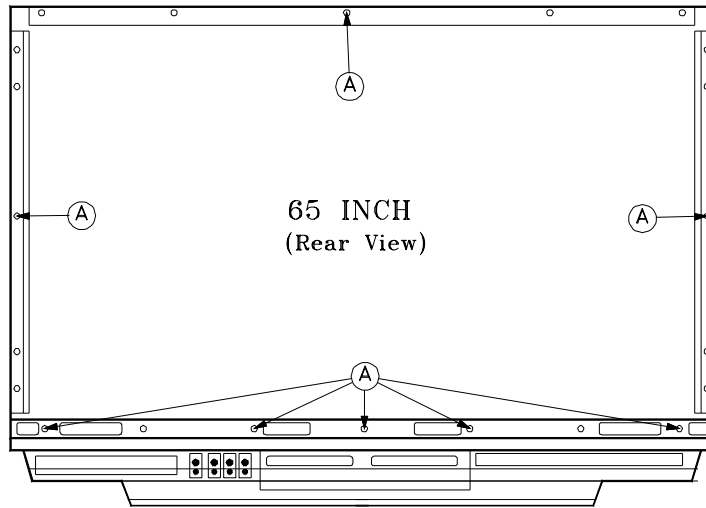


Screen Removal From the BEZEL-FRONT

- 1) Remove the screws (A) from the top, bottom and side rails.
- 2) Lift the Fresnel Lens and Lenticular screen from the BEZEL-FRONT.



SCREEN REPLACEMENT (continued)



Screen Replacement

CAUTION: Wear gloves when handling the Lenticular Screen and Fresnel Lens.
This prevents cuts and finger prints. **Do not place Fresnel Lens in the sun.**
This may cause fire and heat related injuries.

Lenticular Screen and Fresnel Lens Removal

- 1) Remove the top, bottom and side HOLDER-SCREEN rails and their cushions from the Bezel.
- 2) Lift the screens as a single unit from the frame.
2. Separate the Lenticular Screen and Fresnel Lens.

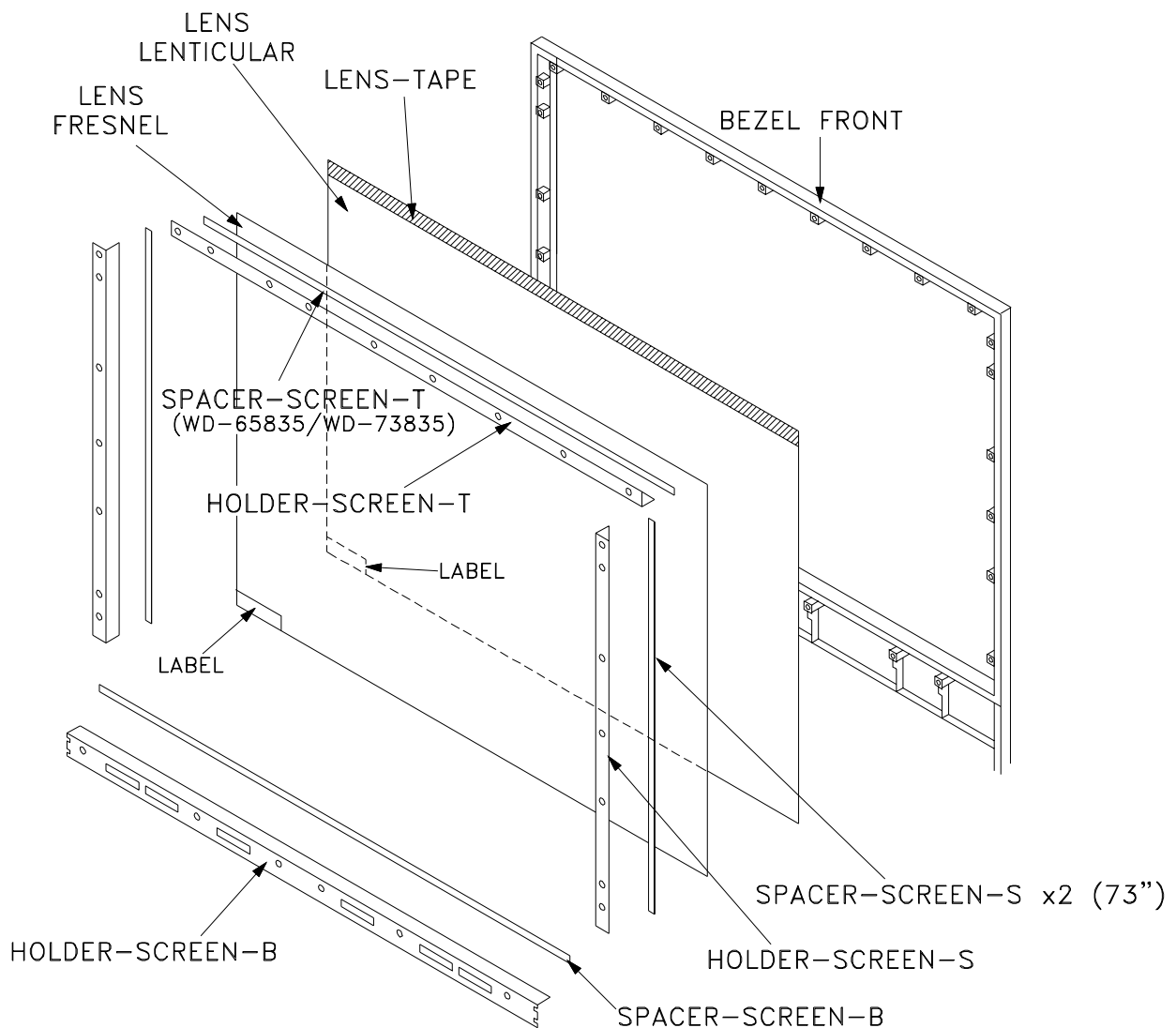
Note: When separating the Lenticular Screen from the Fresnel Lens, use caution while prying the Screen and Lens apart. Use a slot type screw driver, and remove the pressure sensitive double sided tape.

Lenticular Screen and Fresnel Lens Replacement

- 1) Apply LENS-TAPE along the rear top edge of the Lenticular Screen.
- 2) Place the Fresnel Lens on top of the Lenticular Screen, and apply pressure along the top edge.
- 3) Place the screens in the screen frame and reinstall the cushions, top, bottom and side rails.

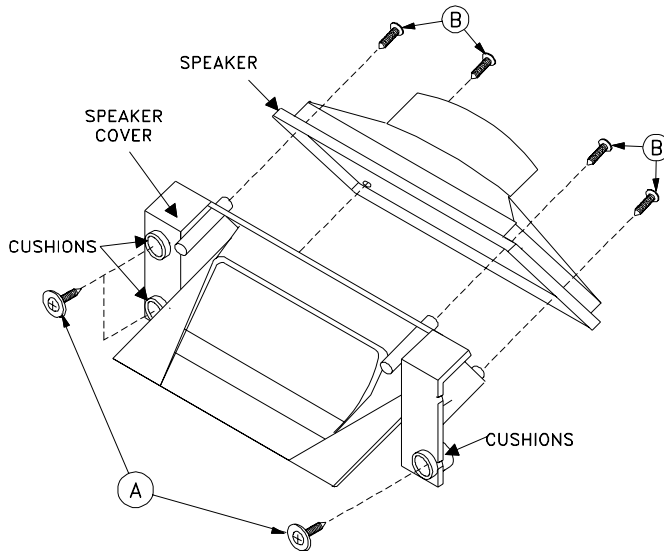
NOTE: The Lenticular Screen label must face the front and the Fresnel Lens label face the rear.

- 4) Reverse the Screen Removal Procedure and insert the screens in the Bezel.



Speaker Replacement

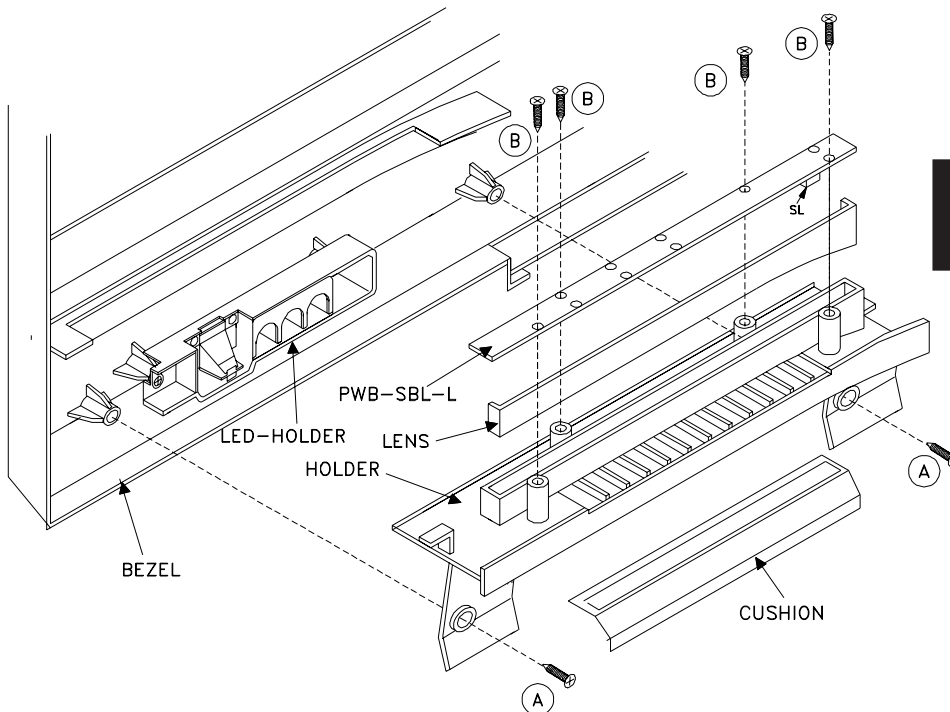
- 1) Remove the Bezel screen assembly to access the speakers.
- 2) Remove 2 screws (A) and carefully slide the Speaker Assembly from the cabinet.
- 3) Disconnect the leads to the speaker.
- 4) Remove 4 screws (B) to remove the speaker from the speaker cover.
- 5) Reverse the procedure to install a replacement speaker.



**SPEAKER
ASSEMBLY**

WD-65835 & WD-73835 (Only) PWB-SBL-R & PWB-SBL-L Replacement

- 1) The screen Bezel Assembly must be removed to access the PWBs-SBL (refer to the V38 Bezel Removal Procedure).
- 2) Remove 2 screws (A) to remove the PWB-SBL assembly from the Bezel.
- 3) Remove 4 screws (B) to remove the PWB from the assembly.
- 4) Reverse the procedure to install a replacement PWB-SBL.

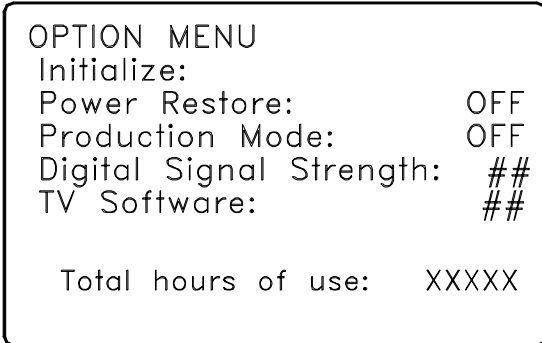


**V39++ SBL
ASSEMBLY**

OPTION MENU

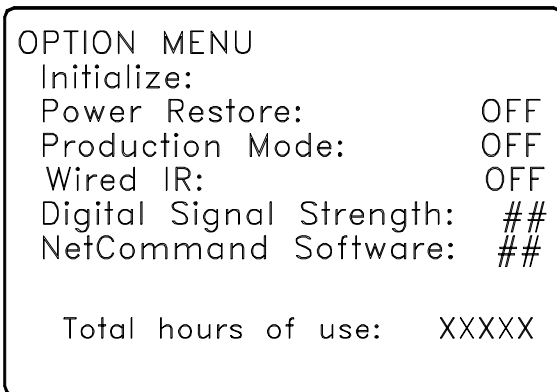
1. Press the "MENU" button on the remote hand unit.
2. Press the buttons "2", "4", "7" and "0" in order.
(The screen will change to the option menu.)

MENU-2-4-7-0



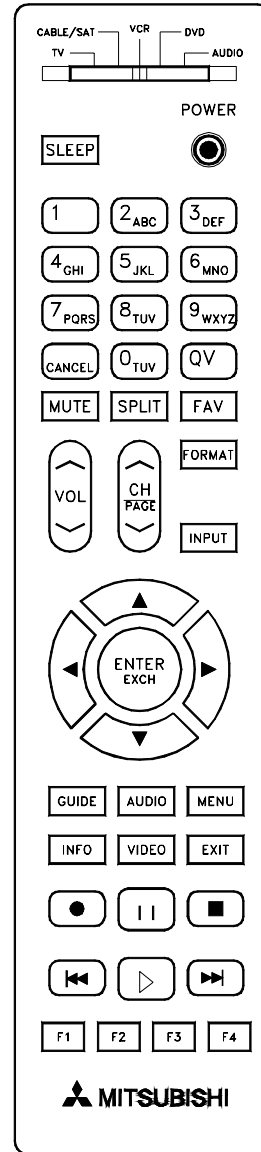
V39 OPTION MENU

MENU-2-4-7-0



V39+ & V39++ OPTION MENU

REMOTE CONTROL



Digital Signal Strength

1. Tune to a Digital Channel
2. From the Option menu scroll down and highlight Digital Signal Strength
3. Press Enter

Example of Digital Signal Strength Display

Signal Quality Index (0-100)	Tuner 0	Tuner 1	OOB Tuner
Frequency (MHz):	597	0	0
Signal Level:	8	0	0
Modulation:	256 QAM	Unknown	Unknown
Carrier Lock:	Locked	Unknown	Unknown
SQI	100	0	0
SNR	34.3	0	0
Correctable errors:	0	0	0
UnCorrectabel errors:	0	0	0

SNR Recommended Levels:
 VSB = 15 to 35
 64 QAM = 22 to 34
 256 QAM = 27 to 27

Signal Noise Ratio

Reset / Initialization

SERVICE TIP:

Many customer generated symptoms, intermittent symptoms or no symptom found can be resolved by using the various Reset and Initialization options. Before visiting the customer's home ask the customer 1st to try the **System Reset** button on the control panel and if this does not resolve the issue, then they can perform an **A/V Reset** by pressing the **Guide + Format** buttons on the front panel at the same time. Then, if necessary, perform a user level **Initialization** by pressing **MENU-123-ENTER** with the remote. The customer should be made aware when settings and/or options will be reset. For more information, see the chart below.

NOTE: During Initialization, the set will reboot. Wait until the Power LED stops flashing before unplugging or powering ON the TV.

Reset / Initialization Guide

Reset Name	When to use	How to use	Resulting Action
Remote Control TV Layer Reset	Returns the remote control TV layer to normal operation.	<ol style="list-style-type: none"> 1) Set the slide switch to TV position. 2) Press and hold the POWER button until it flashes twice then release the button. 3) Enter the code 0 9 3 5. 	Once the valid code has been entered and confirmed, the remote control has been reset.
Remote Control TV Volume/Mute functions	Returns the volume and mute functions of the remote control to TV volume and mute for TV, Cable/Sat, VCR and DVD layers after the Audio Lock for AV Receiver feature has been used.	<ol style="list-style-type: none"> 1) (1) Set the slide switch to TV position. 2) (2) Press and hold the POWER button until it flashes twice then release the button. 3) (3) Enter the code 9 9 3 VOL UP. 	The remote will now operate the TV's volume and mute when the slide switch is in the TV, CABLE/SAT, VCR or DVD positions.
A/V Memory Reset, by individual input	When the audio and or video settings for a single input seems to be incorrect.	MENU --> Audio/Video--> AV Reset	All Audio and Video settings for the individual input are reset except for the <i>Listen To, Language, Balance and Closed Caption</i> settings.
A/V Reset, all inputs	To reset audio and video adjustments for all inputs to the original factory settings.	While viewing the TV, press the front panel buttons GUIDE + FORMAT at the same time.	All Audio and Video settings are reset to the factory default settings. No other menu options are changed.
System Reset	To reset the TV when it does not turn on or off, does not respond to the remote control, front panel buttons or has other unusual symptoms.	Press the SYSTEM RESET button on the front panel with a pointed object such as a pencil or paperclip.	TV Micro Re-boots. Note: The changes made during the current TV-On period may be lost. All other previous user settings are not lost.
Initialize User Level	To reset all customer settings except V-Chip	Press MENU - 123 - ENTER	All customer menu options and A/V settings except V-Chip are reset to factory default.
Initialize - Service Level	To reset all customer settings	MENU - 2470 . Highlight INITIALIZE and press ENTER	All customer menu options and A/V settings are reset to factory default.
V-Chip Password Bypass	If V-Chip password is not known	Press QV + 9 at the same time.	Password will be bypassed. If in the V-Chip menu, enter a new password.
Unlock Front Panel	To unlock the front panel if it has been locked in the V-Chip Menu.	Press and hold the front panel MENU button for 8 seconds.	Front Panel becomes operational. Other V-Chip settings not changed. Note: Cannot be performed while in the Low Power mode and the set is Off.

INITIAL SETTINGS

Audio/Video		Setup Menu (continued)	
Settings		Ant1 Cable	--
Video		Ant2 Air	--
Picture Mode	Brilliant	Ant2 Cable	--
Brilliant Contrast	100%	Edit	
Brilliant Brightness	50%	Channel in Memory	All
Color	50%	Name	--
Tint	50%	FAV1 ~ FAV6	unchecked
Sharpness	50%	Lock	Unlock
Brilliant Color Temp.	High	Clock	
Deep Field Imager (V39++)	On	Settings	Manual
Video Noise (Off-Low-Mid-High)		Time	12:00PM
Audio	(A/V Receiver)	Date	1/01/2007
Speakers	50%	Time Zone	Eastern
Bass	50%	Daylight Savings	Applies
Treble	50%	Timer	
Balance	Off	Timer	Off
Surround	Stereo	Day	Daily
Listen To (Analog only)	English	Time	12:00PM
Language (Digital only)	Off	Device	ANT-1
Level Sound		Channel	2
PerfectColor	On	Energy Mode	Fast power on
PerfectColor	On	Lamp Mode	Standard
PerfectTint		Other Ratings	Gray out
Global	Medium	Other ratings	Off
Video Mute	On	Inputs Menu	Standard
Film Mode	Auto	Name	
SharpEdge (V39++)	On	Ant-1	On
Lamp Mode	Standard	Ant-2	On
Blue Glow (V39++ only)	On if TV On	Input-1	Gray out
FX Gaming	Gray out	Input-2	Gray out
Game Mode	Off	Input-3 (Front)	Gray out
Glasses L-R	Standard	Comp-1	Gray out
Captions Menu		Comp-2	Gray out
Closed Captions		Comp-3 (Front)	Gray out
Analog Captions	On if Mute	HDMI-1	Gray out
Background	Gray	HDMI-2	Gray out
Digital Captions	On if Mute	HDMI-3	Gray out
Digital Settings		HDMI-4 (Front)	Gray out
Font	Default	(Only V39+/V39++)	
Font Size	Large	Learn (Only V39+/V39++)	
Font Color	White	A/V Receiver	
Font Opacity	Translucent	(Only V39+/V39++)	
Background Color	Black	Learn	Gray until auto sensing
Background Opacity	Translucent	Learn/Name	--
Setup Menu		Assign Input 1	Gray out
Language	English	Assign Input 2	Gray out
Scan	--	Assign Input 3	Gray out
Ant1 Air	--	Assign Input 4	Gray out

(Continued on Page 23)

INITIAL SETTINGS (continued)

Parental Lock Menu		Front Panel	
U.S. Ratings		Front Button Lock	Off
Lock	Off	TV Volume	30
TV Rating	TV-PG	Format	
Movie Rating	PG	Ant1, 2 (480i)	Stretch
Time		Ant1, 2 (HD Digital)	Standard
Lock by Time	Off	Input-1, 2, 3	Stretch
Lock Time	12:00PM	Comp-1, 2, 3	Standard
Unlock Time	12:00PM	HDMI-1, 2, 3, 4 (Video or PC)	Standard
		USB Photo	Standard

A. A/V Memory

Each of the external inputs has its own Audio/Video Memory. A change in an A/V setting at a specific input is stored in memory for that specific input.

B. A/V Reset

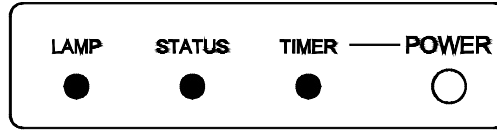
1. Pressing the front panel "GUIDE" and "FORMAT" buttons at the same time initializes all A/V Memories.
2. The AV Reset in the user's menu initializes only the selected input's A/V Memory.

A/V Initial Settings

A/V Memory	Ant	Input	Comp	HDMI (Video)	HDMI (PC)	HDMI (PC 3D)	USB (JPEG)
Picture Mode	Brilliant	Brilliant	Brilliant	Brilliant	Bright	Bright	Brilliant
Contrast	MAX	MAX	MAX	MAX	MAX	MAX	MAX
Brightness	Center	Center	Center	Center	Center	Center	Center
Color	Center	Center	Center	Center	Center	Center	Center
Tint	Center	Center	Center	Center	Center	Center	Center
Sharpness	Center	Center	Center	Center	Center	Center	Center
Color Temp.	High	High	High	High	High	High	High
Perfect Color	Center	Center	Center	Center	Center	Center	Center
Perfect Tint (V39+ & V39++)	Center	Center	Center	Center	Center	Center	Center
Deep Field Imager (V39+ & V39++)	On	On	On	On	n/a	n/a	On
Video Noise	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Film Mode	Auto	Auto	Auto	Auto	n/a	n/a	n/a
SharpEdge (V39+ & V39++)	On	On	On	On	On	Off	On
Bass	Center	Center	Center	Center	Center	Center	Center
Treble	Center	Center	Center	Center	Center	Center	Center
Balance	Center	Center	Center	Center	Center	Center	Center
Surround	Off	Off	Off	Off	Off	Off	Off
Listed To	Stereo	n/a	n/a	n/a	n/a	n/a	On
Level Sound	Off	Off	Off	Off	Off	Off	n/a
Language (Digital only)	English	n/a	n/a	n/a	n/a	n/a	n/a
Vertical Position	n/a	n/a	n/a	n/a	Center	Center	n/a
Horizontal Position	n/a	n/a	n/a	n/a	Center	Center	n/a

LED Indicator Diagnostics

The front panel LEDs provide an indication of the set's operation, and the possible cause of a malfunction. There are three front panel LEDs, "Power", "Status" and "Lamp". The LED display shows the current status or indicates a possible malfunction.



NORMAL LED INDICATIONS

Power/Timer LED	Status LED	Lamp LED	Condition
Off	Off	Off	Off (Standby)
Fast Blink Green	Off	Off	Initialization (40 - 60 seconds) (AC Off)
Off	Off	Green Blink	Lamp cooling (90 seconds after PTV Off) (Fan is still working)
Green	Off	Off	Power On
Slow Blinking Green	Off	Off	Power On Timer is set

ABNORMAL LED INDICATIONS

Power/Timer LED	Status LED	Lamp LED	Condition
Off	Yellow	Off	Temperature high - room too hot. Temperature sensor is disconnected
Off	Off	Blinking Yellow	Lamp cover open.
Off	Off	Red*	Lamp Failure - Lamp failed to turn On. Lamp is broken Lamp turns Off during P-ON
Off	Blinking Red	Off	Fan Stopped
Off	Red	Off	Circuit failure (short) Disconnected DVI cable, chassis to engine No LAMP-EN signal from Engine to turn the lamp On. Ballast UART communication problem.

* A red Lamp LED only occurs after 2 attempts to light the lamp.
Each attempt (pressing POWER) must be at least 65 seconds apart.
During each attempt ballast striking may be audible.

3. Error Code Operational Check

Note: The TV must be in "Shut Down" and not have been switched Off, to perform the Error Code Operational Check. When the TV is switched Off, the code automatically resets to "12" No Error.

Pressing the front panel "INPUT" and "MENU" buttons at the same time, and holding for 5 seconds, activates the Error Code Mode. The "TIMER LED" flashes denoting a two digit Error Code, or indicating no problem has occurred since the last Initialization.

Note: The front panel buttons must be used, NOT those on the Remote Control.

- The number of flashes indicates the value of the MSD (tens digit) of the Error Code.
 - The flashing then pauses for approximately 1/2 second.
 - The LED then flashes indicating the value of the LSD (ones digit) of the Error Code.
 - The Error Code is repeated a total of 5 times.
- Example: If the Error Code is "23", the LED will flash two times, pause, and then flash three times.

4. Error Codes

The Error Code designations indicating malfunction, or no malfunction, are listed below:

ERROR CODES

Code	Description	Most Likely Cause
12	No Error found	
17	Communication loss, TV Micro - Engine (3.3V-ENG-SDA & SCL)	Engine Failure
18	Engine will not accept data (ASIC-READY signal from Engine is not detected).	Loss of 12V from PWB-POWER (Loose PE or PE2 connector); Bad Color Wheel (Loose J6 or J7 connector); Engine Failure
32	Lamp cover is open.	Lamp Cover Switch; Loose CD connector
34	Lamp turns Off while the TV is playing. Lamp failure (Lamp Enable signal from engine is lost)	Lamp Cartridge Failure
36	Exhaust Fan failed.	Loose J4 connector
37	Engine (DMD) fan failed.	Loose J5 connector
38	Lamp temperature abnormally high.	Poor Air Circulation; Loose J3 connector
39	DMD temperature abnormally high.	Poor Air Circulation
41	Standby Supply Short is detected. (5VS or 3.3VS)	PWB-MAIN Failure
42	Sirocco fan failed (Lamp fan).	Loose J8 connector
44	Check for disconnected DVI cable between PWB-DM and Engine. (Engine pulls DVI pin 14 Low)	DVI Cable unplugged
48	PON-SHORT 3.3V switched supply short	PWB-MAIN Failure
57	Ballast communication problem (ballast to chassis)	Loss of 340V from PWB-POWER (PL or CJ1 connector); Loose FB or CJ3 connector; Ballast Failure
61	No LAMP-EN output from the engine to the ballast	Bad Color Wheel (Loose J6 or J7 connector); Engine Failure
66	Lamp did not turn on at P-ON sequence (No Lamp inserted) (Disconnected cable between ballast and lamp) (Lamp-Enable goes to DM but not to Ballast)	Loose CJ4 connector; No Lamp Inserted; HV connection or lead wire to lamp; Lamp Cartridge Failure

Code 34⁽¹⁾ - Lamp Enable is generated to activate the Lamp

Code 57⁽²⁾ - Lamp Enable is generated during P-ON sequence, but no Lamplit signal is received from the Ballast.

Code 61⁽³⁾ - No Lamp Enable is received at the DM and Ballast.

Code 66⁽⁴⁾ - Lamp enable is received at the DM but not at the Ballast.

4. Error Code Log

The Error Code Log - may be helpful to retrieve the code for an error the occurred in the past.

To access the Error Code Log: Press <MENU> <3-5-6-4>

Error Code Definitions

- Page - Current page number
- Current Time - total hours of operational use.
- Lamp Time - usage hours when the error occurred.
- Code - the specific Error Code that occurred.
- Two types:
OCCURRENCE - when the error occurred.
RECOVERY - when normal operation resumed.

```

***** PAGE (002/002) *****
CURRENT TIME: 01455 HOURS

LAMP TIME   CODE STATUS
00413 HRS   57 OCCURRENCE
00413 HRS   57 RECOVERY   Press Up to Previous Page
00716 HRS   32 OCCURRENCE
00716 HRS   32 RECOVERY   Press Right to Top Page
00905 HRS   61 OCCURRENCE
00905 HRS   61 RECOVERY   Press CANCEL to Initialize
                                     Press MENU to Exit
    
```

NOTE: The Error Code Log is intended as a reference tool and is not meant to be used as a final determination of a defective part.

Color Wheel Replacement (Part # 938P137010)

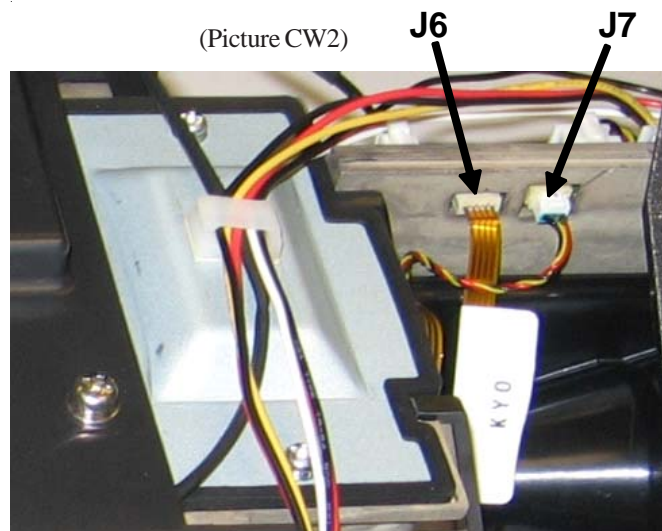
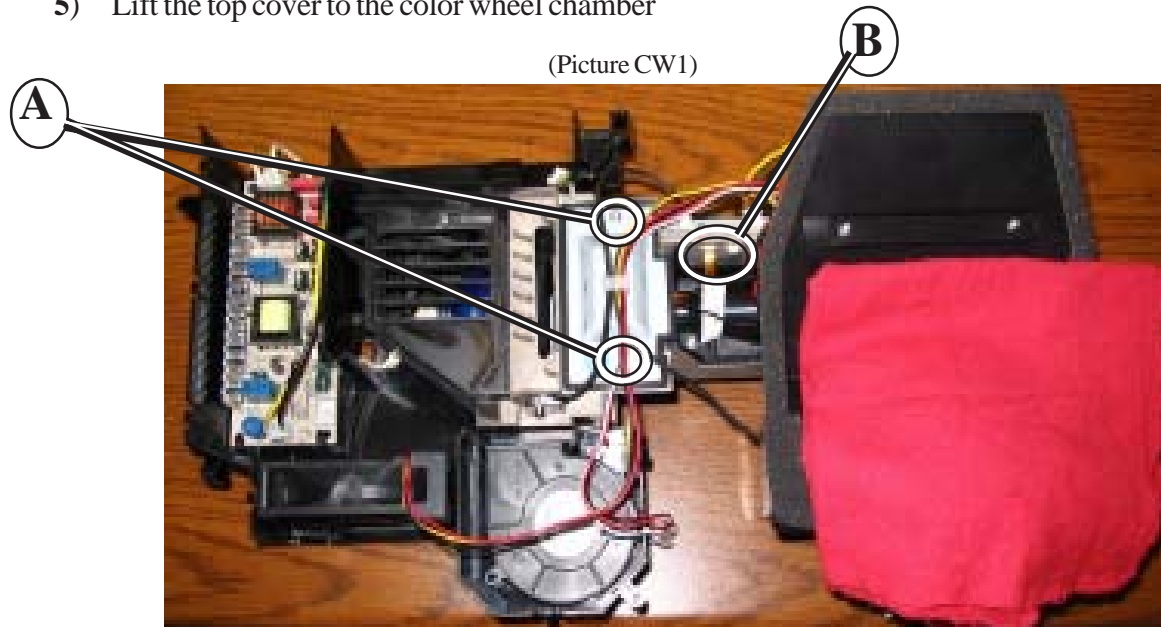
Symptoms

- Noise - Bad Motor Bearing
- Solarized Picture - Before replacing the Color Wheel, try adjusting the IDL (Index Delay), refer to page 27 for the alignment procedure.

Replacement Procedure

CAUTION: This procedure should be done in a dust free environment. Any dust entering into the color wheel chamber can cause abnormalities in the picture.

- 1) Remove Engine assembly from the back of the unit.
- 2) Cover the projection lens to protect it from scratches and remove the TOP DUCT
- 3) Remove the 2 screws (A) as shown in picture CW1
- 4) Disconnect the 2 connectors (B) as shown in picture CW1 (J6 & J7 in CW2)
- 5) Lift the top cover to the color wheel chamber

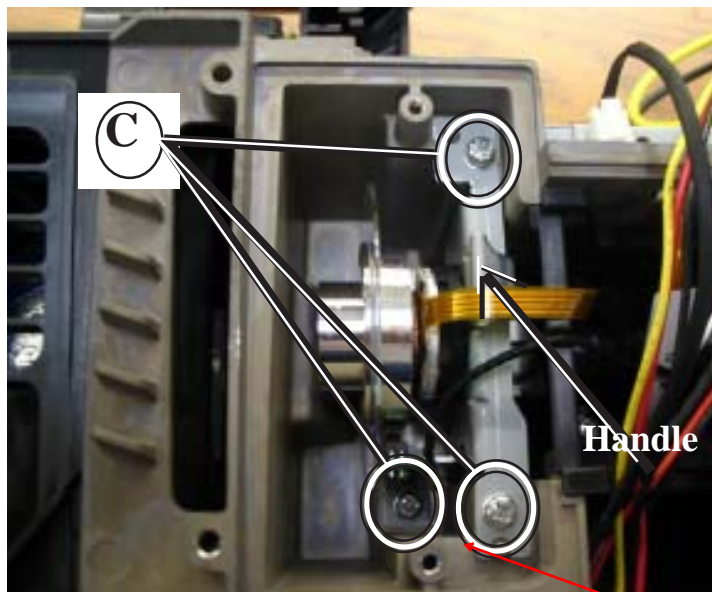


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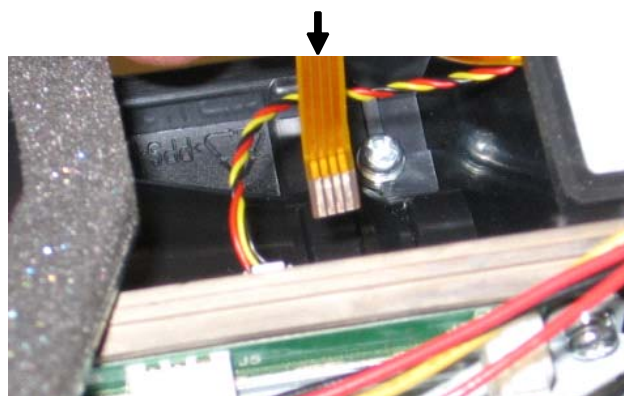
Replacement Procedure (continued)

- 6) Remove 3 screws (C) as shown in picture CW3
 - 7) Hold the color wheel by the handle and pull it from the chamber.
 - 8) Install the new color wheel and reverse the above procedure making sure to not scratch the wheel or allow dust inside the chamber
- CAUTION: Do not twist the ribbon cable to J6 (the shiny silvery contacts must be facing up).

(Picture CW3)



RIBBON CABLE



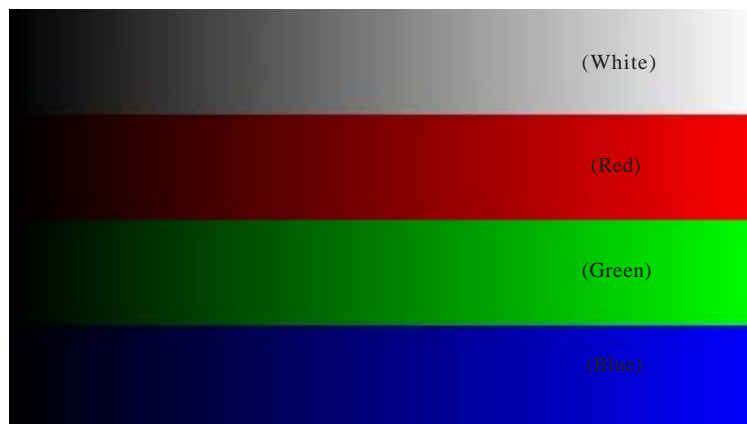
(Picture CW4)

Use magnetized screw driver and be careful to not drop screw near color wheel. Damage to color wheel could occur

Alignment Procedure

- 9) Once TV is reassembled and operating press <MENU 2457> followed by the <PLAY> button.
- 10) Press the <RWND> button 3 times to access the RAMP test pattern (as shown below).
- 11) Press Video button until item #60.IDL is shown.
- 12) Adjust IDL value until RAMP pattern color bars are smooth and solid.
(Hint: Final value is typically in the mid 30's)

(Ramp Test Pattern)



SERVICE ADJUSTMENTS

There are 3 Service Adjustments required in these models:

Electrical Adjustments (there are no mechanical adjustments)

- Horizontal Centering
- Vertical Centering
- 16 Point Keystone Alignment
- Letterbox Geometry
- 4:3 Geometry

Measuring Equipment and Jigs

- No additional Test Equipment is required.
- Remote Control

Test Signal

An internally generated Test Signal is used. No additional external signals are required.

Circuit Adjustment Mode

On these models, the Circuit Adjustment Mode is used for:

- Test Signal activation
- Horizontal and Vertical Centering
- Manual-alignment of keystone geometry
- The following adjustments may only be performed using the remote control.

Horizontal and Vertical Centering Adjustment

1. Activating the Adjustment Mode

1. Press the "MENU" button on a remote hand unit. (The "MENU" display will appear.)
 2. Press the buttons "2", "4", "5" and "7" in that order. (Adjustment mode will appear.)
- If not changed to the adjustment mode press "EXIT" and repeat steps 1 and 2.

2. Test Signal Activation (for H and V position adjustment)

When in the Circuit Adjustment mode, press "PLAY" to activate the internal test patterns, then use FAST FORWARD (▶▶) and REWIND (◀◀) to select the pattern shown below. This pattern is used for H&V electrical centering adjustments.



Centering Test Pattern

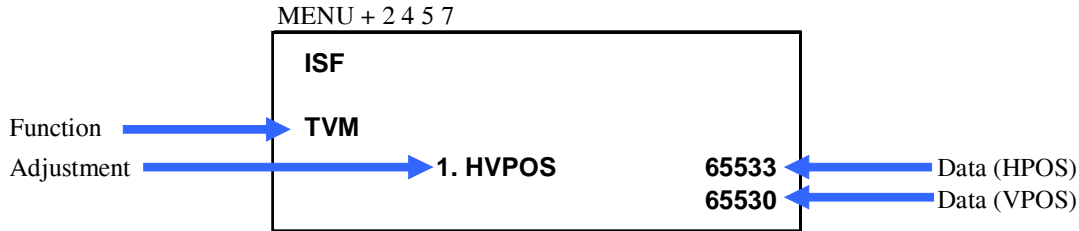
3. Adjustment Function Selection

Use the "AUDIO" button to select a specific Adjustment Function.

NOTE: There are 2 Service Functions on these models: "TVM" and the "ASIC" function. Service adjustments are performed in the TVM mode.

4. Adjustment Selection

Use the "VIDEO" button to select a specific electrical adjustment, "1.HVPOS".



5. Adjusting Data

After selecting an adjustment item, use the DIRECTION (▼▲◀▶) buttons to change the adjustment.

- If a UP/DOWN (▼▲) button is pressed, the VPOS adjustment data changes.
- If a RIGHT/LEFT (◀▶) button is pressed, the HPOS adjustment data changes.

6. Saving data

Press "ENTER" to save the adjustment data in memory.

The display characters go red for approximately one second in this step.

Note: If the circuit adjustment mode is terminated without pressing "ENTER", changes in adjustment data are not saved.

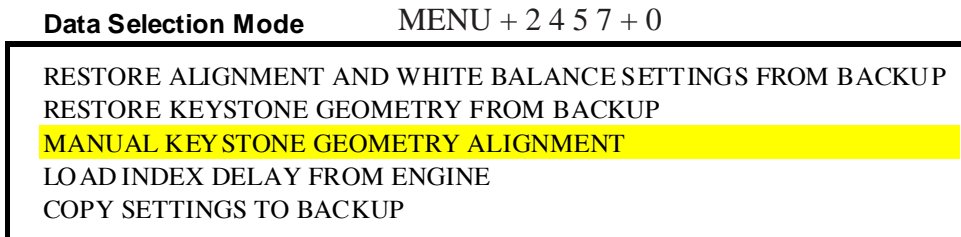
16-Point Keystone Alignment

Summary:

- Calculates new geometry based on positional movement of 16 points
- Alignment does not effect the center of the picture, only the edge geometry
- When the adjustment mode is activated all 16 points will be set to default position
- The adjustment is not saved until the ENTER button has been pressed
- Pressing the ENTER button will save, however it will not indicate this in any manner
- For the adjustment to work properly all 16 points must be aligned before pressing the ENTER button

1. Activating the Adjustment Mode

1. Press the "MENU" button on a remote hand unit. (The "MENU" display will appear.)
2. Press the buttons "2", "4", "5", "7", pause and then press "0" (Data Selection Mode will appear)

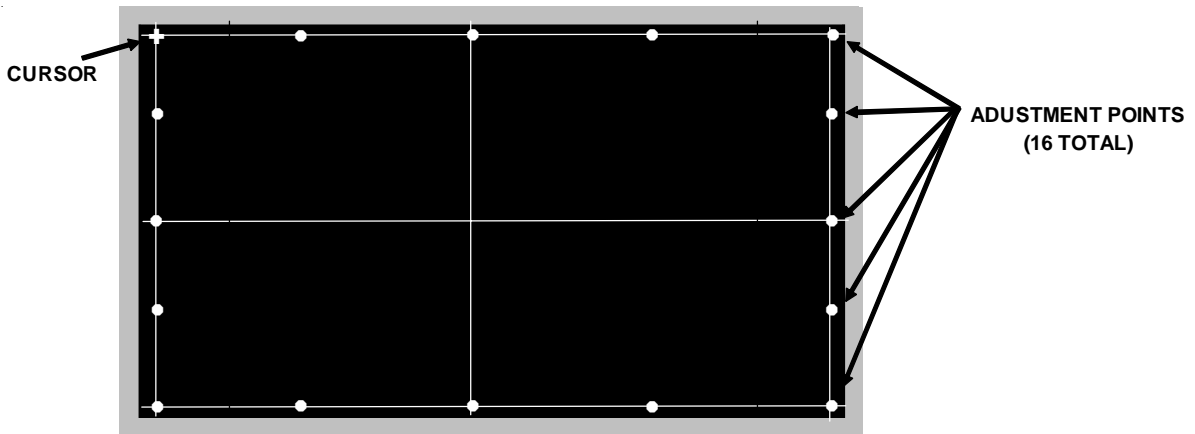


WARNING - only use "COPY SETTINGS TO BACKUP" after replacing the Optical Engine

3. Use the (▼▲) buttons to highlight "MANUAL KEYSTONE GEOMETRY ALIGNMENT" and press "ENTER". The following pattern appears (see next page).

NOTE 1: If data is out of range, you may need to perform reset - Press (1) then ENTER. This nulls all correction data.

NOTE 2: To restore the original factory correction data, repeat steps 1 and 2, then select "RESTORE KEYSTONE GEOMETRY FROM BACK UP" and press "ENTER".



2. Manual Keystone Geometry Alignment (There are 2 modes of adjustment: FULL and TOUCH UP)

FULL ADJUSTMENT MODE: Part 1

(Note: if data is out of range, you may need to do a reset before starting - press "1" then "ENTER")

1. When entering the Keystone Adjustment mode you will see the test pattern shown in the drawing above. The point in the upper left corner will be a cross.
2. Starting from the 1st point (upper left corner) use the DIRECTION (↙↕↘↗) buttons to align the selected point (cross cursor) with the Bezel edge.
3. Use the FAST FORWARD (▶▶) button to move between each point or REWIND (◀◀) to go back.
4. Align each point in a straight line, use the Bezel as a reference. See example drawing in *Figure 1*.
NOTE: Only the cross will move, the pattern will not change.
5. After all 16 points are aligned properly, pressing the (▶▶) button and the cursor will be at the start location.
6. Press "ENTER", correction data is automatically calculated data, saved and exits the adjustment mode.
7. Press "ENTER" to reenter the adjustment mode. The test pattern appears with the corrections applied.

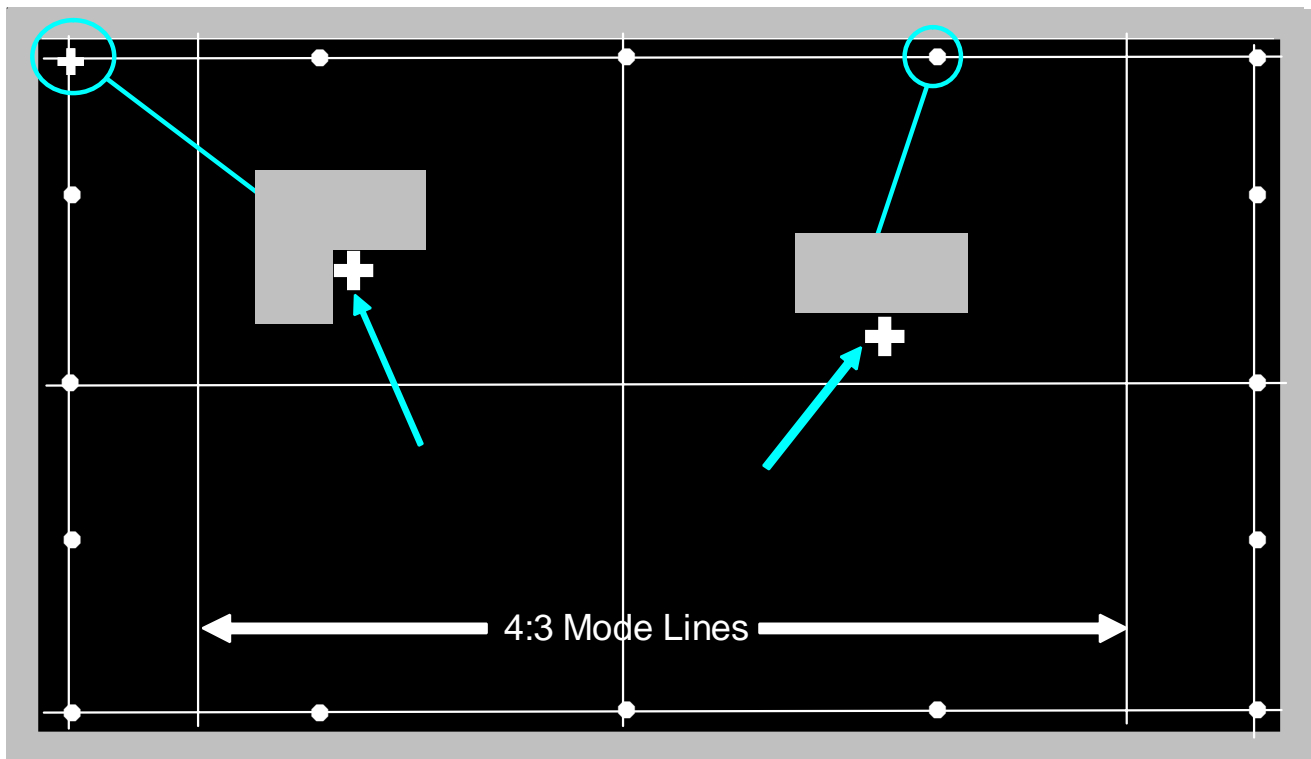


Figure 1: Adjustment Mode Pattern

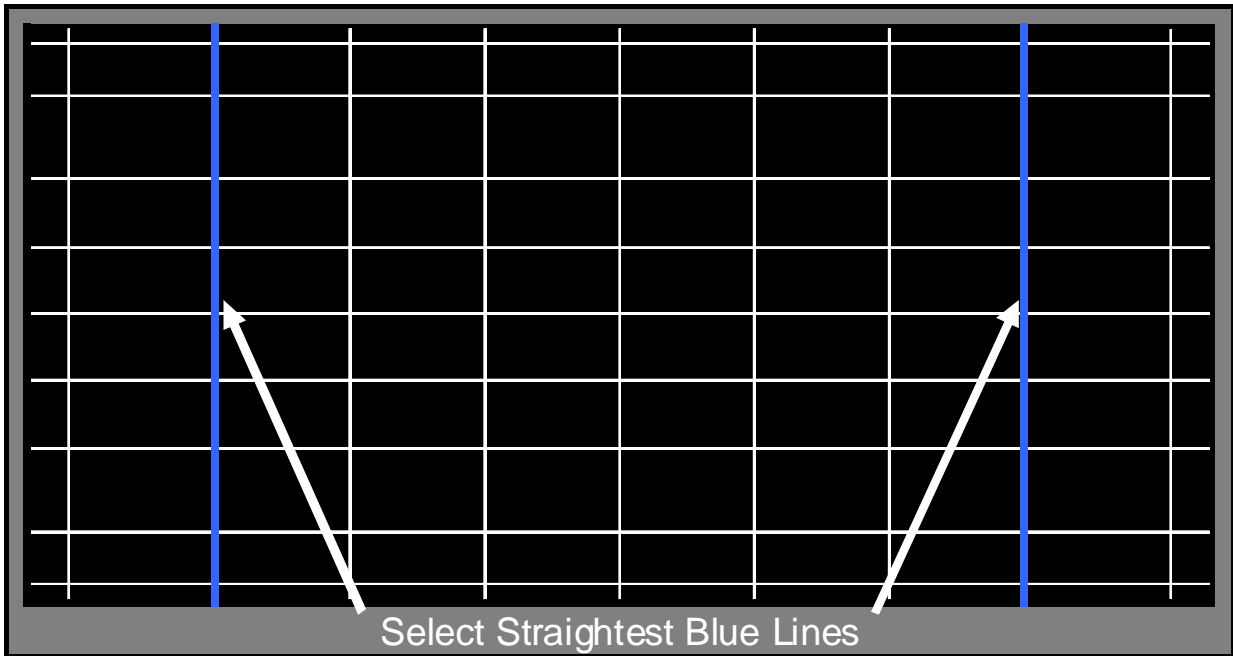


Figure 2: 4 by 3 Mode Pattern

Part 2 (4 by 3 & Letter Box Alignment Mode)

8. Pressing "VIDEO" activates the 4x3 alignment mode, refer to *Figure 2*.
9. Use the (▶▶) or (◀◀) buttons to step through 11 preset 4x3 patterns. Select the pattern with the straightest blue vertical lines that are parallel to the Bezel edge.
10. Press "VIDEO" to activate the Top Letter box alignment mode, refer to *Figure 3*.
11. Use the (▶▶) or (◀◀) buttons to step through 15 preset alignment settings. Select the setting with the straightest top letter box line (red line) that is parallel to the Bezel edge.

(Continued on the following page)

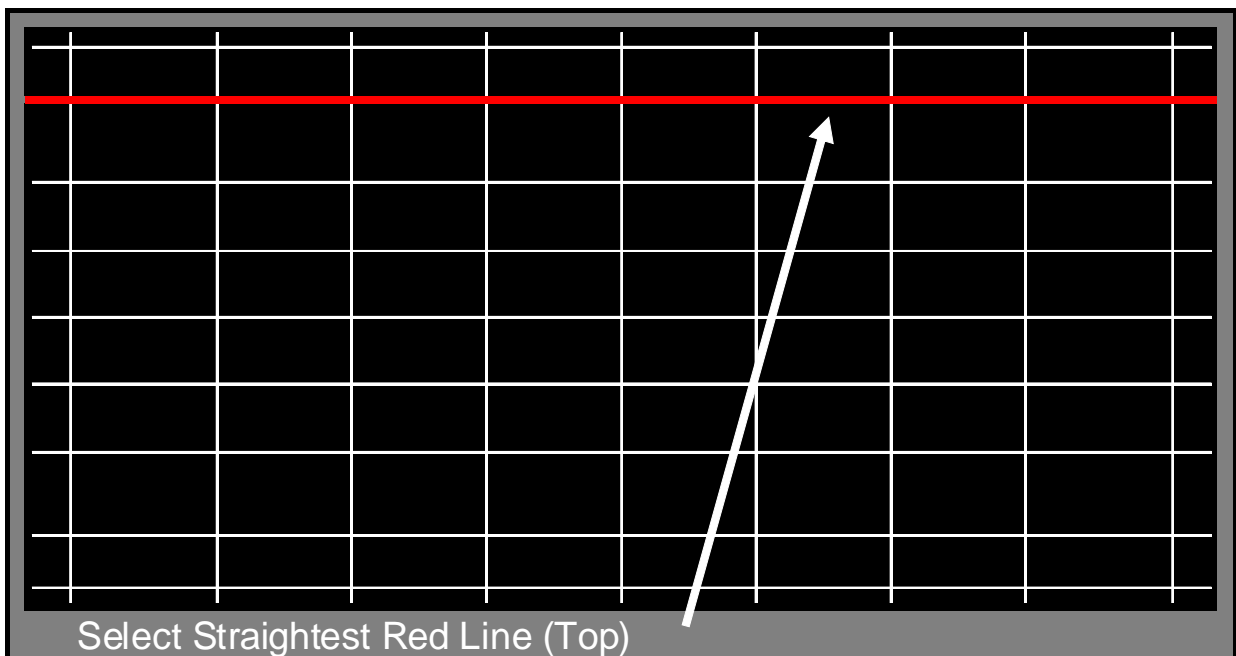


Figure 3: Top Letter Box Mode Pattern

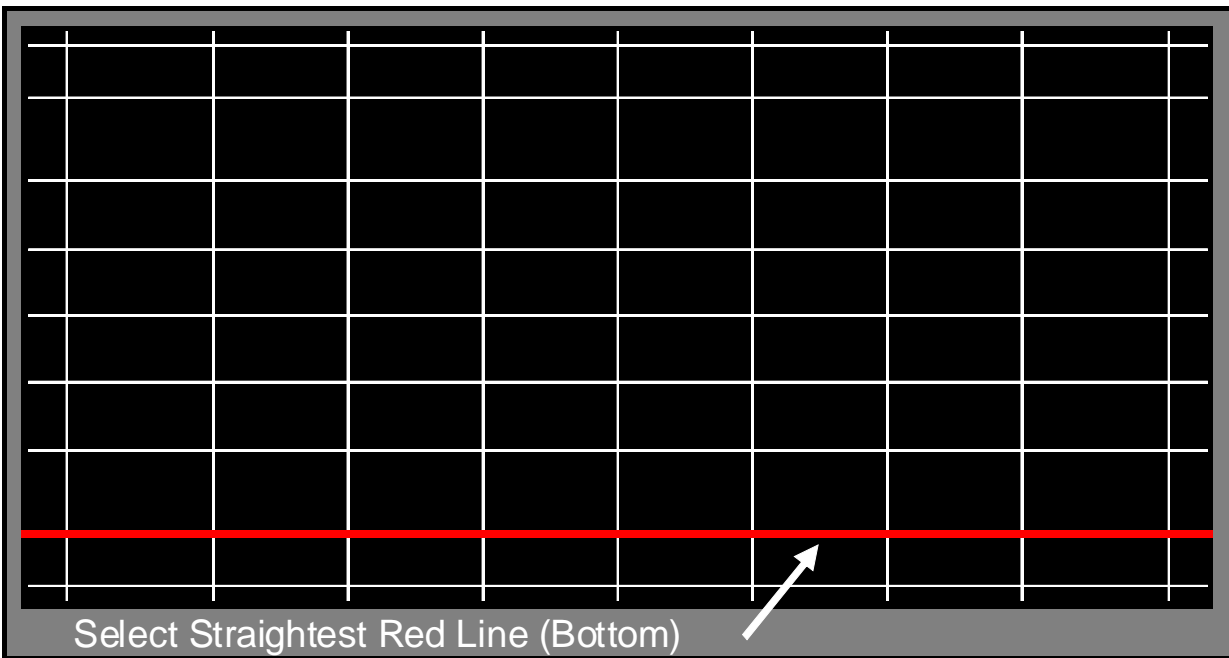


Figure 4: Bottom Letter Box Mode Pattern

12. Press "VIDEO" to activate the Bottom Letter Box alignment mode, refer to *Figure 4*.
13. Use the (▶▶) or (◀◀) buttons to step through 10 preset alignment settings. Pick the setting with straightest bottom letter box line that is parallel to the Bezel edge..
14. Press "ENTER" to save and exit the mode.

Part 3 (Touch Up Alignment Mode)

After Manual Data has been entered the Touch Up mode may be used.

15. Enter the MANUAL KEYSTONE GEOMETRY ALIGNMENT mode.
16. Use (▶▶) or (◀◀) to move the cursor to the point you want to touch up. Use the (▼▲◀▶) keys to adjust that point.
17. Press "INFO" to see the change, the change is not saved at this time.
18. Repeat at additional points as needed.
19. Press "ENTER" to save changes and exit the mode.

Touch Up 4x3 or Letter Box patterns

- 20: Enter the MANUAL KEYSTONE GEOMETRY ALIGNMENT mode and use the "VIDEO" button to enter the 4x3 or Letter Box mode.
- 20: Select another pattern and press "ENTER" to save and exit the mode.

Data Transfer

After entering the Service Mode (MENU-2-4-5-7) and pressing (0), besides *MANUAL KEYSTONE GEOMETRY ALIGNMENT* four data transfer choices are listed on screen.

- *RESTORE ALIGNMENT AND WHITE BALANCE SETTINGS* - copies HVPOS, White Balance and Engine Color Wheel Delay from the Optical Engine to the PWB-MAIN..
- *RESTORE KEYSTONE GEOMETRY FROM BACKUP* - copies manual adjustment data from Optical Engine to PWB-MAIN.
- *LOAD INDEX DELAY FROM ENGINE* - copies Engine data to PWB-MAIN..
- *Copy SETTINGS TO BACKUP* - **WARNING, use only after replacing the OPTICAL ENGINE.**

After Engine Replacement

- 1) *Load Index Data from Engine.*
- 2) *Copy Settings to Backup*

After PWB-MAIN Replacement

- 1) *Restore Alignment and White Balance from Backup*
- 2) *Restore Keystone Geometry Alignment.*
- 2) *Load Index Delay from Engine.*



Using Lead Free Solder

The above symbol indicates Lead (Pb) Free solder was used during the construction of PWBs. **Only Lead Free solder** should be used when servicing these PWBs.

Solder must be compatible with that used by the manufacturer. Leaded solder can not be used on PWBs manufactured with Pb-free solder. The Mitsubishi standard for service requires the use of Tin-Silver-Copper (Sn-96.5, Ag-3.0, Cu-0.5). It can be obtained through the Parts Department.

Order part number: **PB FREE SOLDER**

Lead Free solder has a higher melting point, and does not “wet” as well as leaded solder. This means it does not adhere as readily to the solder iron tip, and the surface to be soldered. To counteract this, the flux used is more corrosive.

The following cautions must be taken when using Pb Free solder.

- Higher temperatures can cause the PWB to warp, detaching surface mount components.
- Higher temperatures may cause thermal damage to components.
- Higher temperatures can cause plastics, such as connectors, relays, LEDs electrolytic capacitors, etc. to melt or warp.
- Higher temperatures can cause surface oxidation resulting in poor solder spread-ability and wet-ability.
- The flux is more corrosive.

- The time required for a good solder connection may take longer.
- Poor wet-ability can cause solder balls.
- Higher temperatures can cause flux spattering.
- Soldering iron tip life is shortened.
- Dull finish solder joints (not shiny) can appear to be a “cold” solder joint.

In general a tip temperature of 700° F will usually provide good results.

Displays used to indicate Pb-free

PCBs will be marked, indicating the level of Pb-free construction. *Table 1* defines the levels by phase and shows the different symbols that will be displayed on the PCB. Additionally, a PCB constructed using Pb-free solder may be simply marked **LFS**.

When possible, the indication will be placed close to the part number that is screened onto the PCB (not the part label). *Figure 1* is an example of a PCB showing the display and its location.

Pb-Free Phase	Definition	Display	Short Display (When the area is too small)
Phase-1	PCB's constructed using Pb-free solder.		
Phase-2	Solder, PCB surface finishing and component lead plating is Pb-free. Components may have internal Pb.		
Phase-3	Solder, PCB surface finishing and components are Pb-free. (100% Pb-free)		

Table 1: Pb-Free Phases and Symbols



Figure 2: Pb-Free display on PWB

CHIP PARTS REPLACEMENT

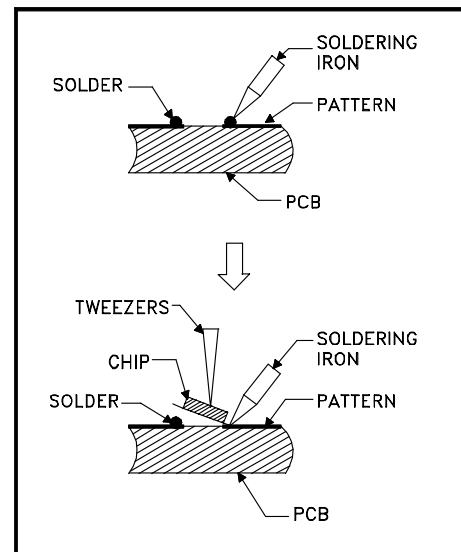
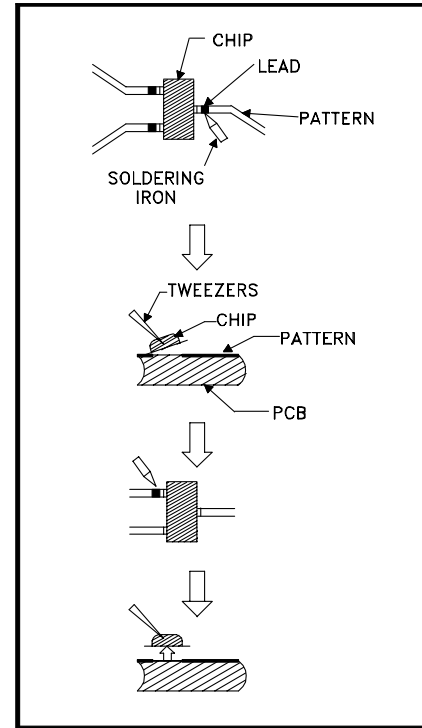
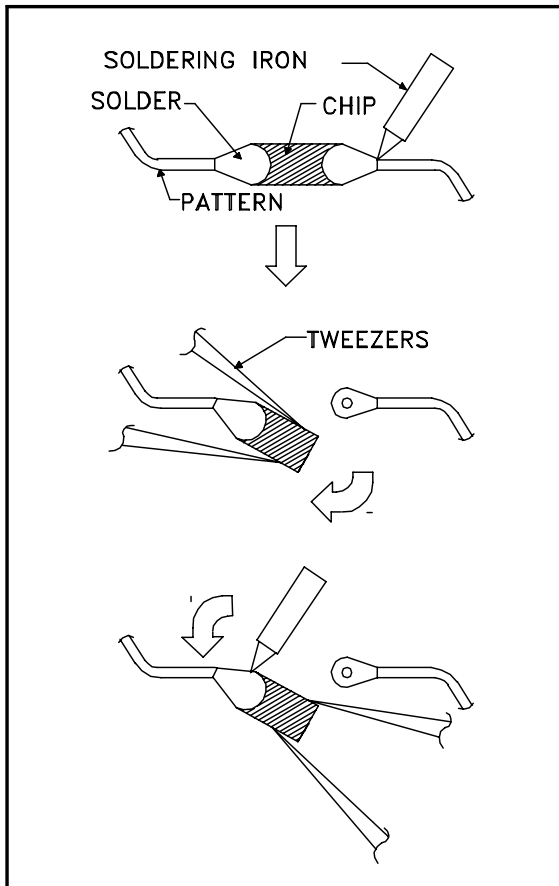
Some resistors, shorting jumpers (0 Ohm resistors), ceramic capacitors, transistors and diodes are chip parts. The following precautions should be taken when replacing these parts.

Cautions:

1. Use a fine tipped, well insulated soldering iron and tweezers.
2. Melt the solder and remove the chip parts carefully so as not to tear the copper foil from the printed circuit board.
3. Discard removed chips; do not reuse them.
4. Do not apply heat for more than 3 (three) seconds to new chip parts.
5. Avoid using a rubbing stroke when soldering.
6. Take care not to scratch, or damage the chip parts when soldering.
7. Supplementary cementing is not required.

Chip Parts Removal (Resistors, Capacitors, etc.)

1. Grasp the part with tweezers. Melt the solder at both sides alternately, and remove one side of the part with a twisting motion.
2. Melt the solder at the other side and remove the part.



REPLACEMENT PARTS


Parts Ordering

To expedite delivery of replacement parts orders, specify the following:

1. Model Number/Serial Number
2. Part Number and description
3. Quantity

Note: Unless complete information is supplied, delay in processing of orders will result.

Critical and Warranty Parts Designation

Critical Electrical Components are indicated by **Bold Type** and a Δ icon in the Parts List, and in the schematic diagrams by a red hatch  and a Δ .

Parts Tolerance Codes

Refer to the following chart for tolerance characteristics of electrical components.

MARK	B	C	D	F	G	J	K
Tolerance %	± 0.1	± 0.25	± 0.5	± 1	± 2	± 5	± 10

MARK	M	N	V	X	Z	P	Q
Tolerance %	± 20	± 30	± 10	+ 40 -20	+ 80 -20	+ 100 - 0	+ 30 -10

MARK	M	N	V	X	Z
Tolerance (pF)	± 0.1	± 0.25	± 0.5	± 1	± 2

QUICK REFERENCE FOR COMMON PARTS

ALL MODELS

PART	PART NUMBER
Lamp-Cartridge	915B403001
Lamp Ballast	938P127010
Speaker	480P084010
Fan-Exhaust	299P335010
Fan-Scirocco (Lamp)	299P321010
Fan-Engine (DMD)	299P339010
Sensor-Temperature	299P337010
PWB-Sw-Lamp	935D985001
Module-Color-Wheel	938P137010

PRINTED CIRCUIT BOARDS

MODEL	PWB-MAIN	PWB-POWER	PWB-FRONT1	PWB-CONT1	PWB-PREAMP
WD-60735	934C282001	934C283001	935D981001	935D982001	935D984001
WD-60C8	"	"	"	"	"
WD-65735	"	"	"	"	"
WD-65736	934C282002	"	"	"	935D984002
WD-65835	934C282003	"	"	935D982002	"
WD-65C8	934C282001	"	"	935D982001	935D984001
WD-73735	"	"	"	"	"
WD-73736	934C282002	"	"	"	935D984002
WD-73835	934C282003	"	"	935D982002	"
WD-73C8	934C282001	"	"	935D982001	935D984001

OPTICAL ENGINE & MISC. PARTS

MODEL	OPTICAL ENGINE	FRESNEL LENS	LENTICULAR SCREEN	MIRROR KIT	REMOTE
WD-60735	938P126040	491P2180010	491P217010	KIT-MIR 767D086010	291P137010
WD-60C8	"	"	"	"	"
WD-65735	938P126050	491P218020	491P217020	KIT-MIR 767D086020	"
WD-65736	"	"	"	"	"
WD-65835 w/DB	955B378001	"	"	KIT-MIR WD65835	290P137020
WD-65C8	938P126050	"	"	KIT-MIR 767D086020	291P137010
WD-73735	938P126060	491P218030	491P217030	KIT-MIR WD73735	"
WD-73736	"	"	"	"	"
WD-73C8	"	"	"	"	"
WD-73835 w/DB	955B378002	"	"	"	290P137020

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#] ▲
INTEGRATED CIRCUITS			
IC102	276P325010	IC-C-MOS - MAX4232AKA+T/SOT-23+	
IC2001	276P460010	IC-C-MOS - SiI9125CTU	
IC2004	276P551010	IC-C-MOS - AT24C02BN-SH-T	dehi
IC2005	271P251010	IC - MM1661JHBE	
IC2101	276P461010	IC-C-MOS - SiI9185CTU	
IC2102	271P251010	IC - MM1661JHBE	
IC2201	271P255010	IC - RClamp0524P.TCT	
IC2202	271P255010	IC - RClamp0524P.TCT	
IC2301	271P255010	IC - RClamp0524P.TCT	
IC2302	271P255010	IC - RClamp0524P.TCT	
IC2401	271P255010	IC - RClamp0524P.TCT	
IC2402	271P255010	IC - RClamp0524P.TCT	
IC2A02	271P255010	IC - RClamp0524P.TCT	dehi
IC2A03	271P255010	IC - RClamp0524P.TCT	dehi
IC2A04	271P255010	IC - RClamp0524P.TCT	dehi
IC2E01	276P519010	IC-C-MOS - 74HC132DB	dehi
IC2J01	276P459010	IC-C-MOS - MM1783BQ	
IC3A01	276P503010	IC-C-MOS - AK5358AETP	
IC3D03	276P498010	IC-C-MOS - AK4341ETP	
IC3E02	276P464010	IC - TDA8932BTW/N2	
IC3F01	271P209010	IC - AN5832SA	
IC3P01	276P518010	IC - NJU26204V-TE2	
IC7A01	276P576010	IC-C-MOS - UPD78F1178GF(S)-GAT-AX	
IC7A03	276P578010	IC-C-MOS - MM3383DNRE	
IC7C00	276P336010	IC-C-MOS - SiI7170CMSU	
IC7C01	276P337010	IC-C-MOS - PLL701-21SC-R	
IC7C02	271P251020	IC - MM1663DHBE	
IC7E01	276P197010	IC-C-MOS - AD9981KST-80	
IC7F00	276P466010	IC-C-MOS - NT5DS8M16FS-5T	
IC7F01	276P466010	IC-C-MOS - NT5DS8M16FS-5T	
IC7F02	276P466010	IC-C-MOS - NT5DS8M16FS-5T	
IC7F03	276P466010	IC-C-MOS - NT5DS8M16FS-5T	
IC7F04	271P033020	IC - LP2996LQNOPB	
IC7G00	276P632010	IC-C-MOS - MB8AA1700PBH-GE1	
IC7G01	271P216010	IC - SC4215ISTR	
IC7N21	276P525010	IC-C-MOS - MAX4489ASA+T	dehi
IC8001	276P441010	IC-C-MOS - X215H48AGA21HG(X240H)	
IC8002	270P706020	IC - MAX823REUK	
IC8010	271P296010	IC-REGULATOR - SC4211STR	
IC8011	271P216010	IC - SC4215ISTR	
IC8102	276P492020	IC-C-MOS - NT5DS32M16BS-5T	
IC8103	276P492020	IC-C-MOS - NT5DS32M16BS-5T	
IC8205	271P171010	IC - MIC2040-1YMM	
IC8307	276P485010	IC-C-MOS - SC16C652BIB48	
IC8312	276P333010	IC-C-MOS - LCMX0256C3TN10C	
IC8322	276P600010	IC-C-MOS - KFG1216U2B-DIB60	
IC8501	276P628010	IC-C-MOS - PL671-33-120SC-R	
IC9A10	267P175030	HIC - STR-W6734	▲
IC9A20	271P142010	IC - RT9H301C	▲
IC9C51	271P251020	IC - MM1663DHBE	
IC9G01	271P253010	IC - AOZ1010AI	
IC9G02	271P254010	IC - ISL6545ACBZ-TS2698	
IC9G03	271P254010	IC - ISL6545ACBZ-TS2698	
IC9G05	271P272010	IC - NJM2386ADL3-09	
IC9G80	271P171010	IC - MIC2040-1YMM	

Ref #	Part #	Part Name & Description	[#] ▲
CHIP Type Transistors (Listed by Part No.)			
	Part No.	Description	
	261P842080	2SC3052-T112-1E;F	
	261P844010	RT1N436C-T112-1	dehi
	261P845010	RT1P241C-T1112-1	
	261P874010	FDS8896	
	261P875010	FDS8984	
	261P876010	FDS6298	
	261P877010	FDC655BN	
	261P881010	2SB1424T100R	dehi
	261P889010	ISA1235AC1-T112A-1E,1F	
TRANSISTORS			
Conventional Transistors (By Ref #)			
Ref #	Part #	Part Name & Description	[#]
Q9A12	261P227010	TR - FQPF27P06	
DIODES			
D2103	262P852010	D-CHIP - BAT54S	
D2201	262P840090	D-CHIP - MAZ80510H	
D2202	262P830010	D-CHIP - MC2850-T111-1	dehi
D2202	262P830010	D-CHIP - MC2850-T111-1	abcfgj
D2203	262P830010	D-CHIP - MC2850-T111-1	dehi
D2203	262P830010	D-CHIP - MC2850-T111-1	abcfgj
D2301	262P840090	D-CHIP - MAZ80510H	
D2302	262P830010	D-CHIP - MC2850-T111-1	dehi
D2302	262P830010	D-CHIP - MC2850-T111-1	abcfgj
D2303	262P830010	D-CHIP - MC2850-T111-1	dehi
D2303	262P830010	D-CHIP - MC2850-T111-1	abcfgj
D2401	262P840090	D-CHIP - MAZ80510H	
D2402	262P830010	D-CHIP - MC2850-T111-1	dehi
D2402	262P830010	D-CHIP - MC2850-T111-1	abcfgj
D2403	262P830010	D-CHIP - MC2850-T111-1	dehi
D2403	262P830010	D-CHIP - MC2850-T111-1	abcfgj
D2A04	262P840090	D-CHIP - MAZ80510H	dehi
D2E01	262P830010	D-CHIP - MC2850-T111-1	dehi
D2J03	262P163010	D-CHIP - MALS068X0L	
D2J04	262P163010	D-CHIP - MALS068X0L	
D2J06	262P163010	D-CHIP - MALS068X0L	
D7A01	262P828010	D-CHIP - MC2838-T112-1	
D7A04	262P828010	D-CHIP - MC2838-T112-1	
D7A05	262P828010	D-CHIP - MC2838-T112-1	
D7L01	264P212020	D-LED - LN31GPH	abcdfghj
D7L02	264P584020	DIODE-LE - SML1216W-C,D	abcdfghj
D7L03	264P584020	DIODE-LE - SML1216W-C,D	abcdfghj
D7L05	264P212020	D-LED - LN31GPH	ei
D7L06	264P584020	DIODE-LE - SML1216W-C,D	ei
D7L07	264P584020	DIODE-LE - SML1216W-C,D	ei
D7N21	268P100010	DIODE-PHOTO - SFH235FA	dehi
D7N22	262P828010	D-CHIP - MC2838-T112-1	dehi
D7T01	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei
D7T02	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei
D7T03	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei
D7T04	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei
D7T05	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei
D7T06	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei
D7T07	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#]	△
D7T08	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T09	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T10	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T21	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T22	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T23	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T24	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T25	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T26	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T27	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T28	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T29	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T30	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D8203	264P846010	D-CHIP - MA732		
D8204	264P846010	D-CHIP - MA732		
D9A00	262P162020	DIODE - D3SB80-7001		
D9A02	264P045080	DIODE - 1S2076A/1S24710M		
D9A03	264P775080	DIODE - MTZJ6.2CQLF		
D9A04	264P045080	DIODE - 1S2076A/1S24710M		
D9A05	262P170010	DIODE - SARS01		
D9A07	262P158020	DIODE - S3V60-5009F40		
D9A08	262P158020	DIODE - S3V60-5009F40		
D9A18	264P045080	DIODE - 1S2076A/1S24710M		
D9A19	264P045080	DIODE - 1S2076A/1S24710M		
D9A20	264P045080	DIODE - 1S2076A/1S24710M		
D9A22	264P775080	DIODE - MTZJ6.2CQLF		
D9A23	262P085010	DIODE - 11EFS2N-TA2B5		
D9A24	262P085010	DIODE - 11EFS2N-TA2B5		
D9A25	262P085010	DIODE - 11EFS2N-TA2B5		
D9A26	262P194010	DIODE - FCHS10A065-15A		!
D9A31	262P084020	DIODE - 31DQ09-FC5		
D9C50	262P830010	D-CHIP - MC2850-T111-1		
D9C51	262P830010	D-CHIP - MC2850-T111-1		
D9C52	262P830010	D-CHIP - MC2850-T111-1		
D9C53	262P830010	D-CHIP - MC2850-T111-1		
D9C54	262P830010	D-CHIP - MC2850-T111-1		
D9G01	262P852010	D-CHIP - BAT54S		
D9G02	262P852010	D-CHIP - BAT54S		
D9G03	262P842010	D-CHIP - MAZ81500H		
D9G04	262P842020	D-CHIP - MAZ81600H		
D9G06	262P828010	D-CHIP - MC2838-T112-1		
D9G15	262P841010	D-CHIP - MAZ80620H		
D9G19	262P853060	DIODE - 1N748A		
D9G80	262P163010	D-CHIP - MALS068X0L		
COILS				
L102	409P975010	CHIP BEADS - MPZ2012S221A		
L103	325C420070	COIL-CHIP - 10MH-K		
L104	409P974010	CHIP BEADS - MMZ1608S601A		
L105	325C420070	COIL-CHIP - 10MH-K		
L106	325C420070	COIL-CHIP - 10MH-K		
L117	409P974010	CHIP BEADS - MMZ1608S601A		
L118	409P974010	CHIP BEADS - MMZ1608S601A		
L2001	409P974010	CHIP BEADS - MMZ1608S601A		dehi
L2002	409P974010	CHIP BEADS - MMZ1608S601A		
L2003	409P974010	CHIP BEADS - MMZ1608S601A		
L2004	409P974010	CHIP BEADS - MMZ1608S601A		
L2005	409P974010	CHIP BEADS - MMZ1608S601A		

Ref #	Part #	Part Name & Description	[#]	△
L2006	409P974010	CHIP BEADS - MMZ1608S601A		
L2007	409P974010	CHIP BEADS - MMZ1608S601A		
L2008	409P974010	CHIP BEADS - MMZ1608S601A		
L2009	409P974010	CHIP BEADS - MMZ1608S601A		
L2101	409P974010	CHIP BEADS - MMZ1608S601A		
L2102	409P974010	CHIP BEADS - MMZ1608S601A		
L2104	409P974010	CHIP BEADS - MMZ1608S601A		
L2E00	409P876040	EMI-F-CHIP - CNF20C221S/ CKD510JB1H221S		dehi
L2EA0	409P974010	CHIP BEADS - MMZ1608S601A		ei
L2EA1	409P974010	CHIP BEADS - MMZ1608S601A		ei
L2EA2	409P974010	CHIP BEADS - MMZ1608S601A		ei
L2J01	409P974010	CHIP BEADS - MMZ1608S601A		
L2J02	409P974010	CHIP BEADS - MMZ1608S601A		
L2J03	409P974010	CHIP BEADS - MMZ1608S601A		
L2J04	321C114010	COIL-RF - 2200MH-J		
L3A02	409P974010	CHIP BEADS - MMZ1608S601A		
L3A03	409P974010	CHIP BEADS - MMZ1608S601A		
L3D08	409P974010	CHIP BEADS - MMZ1608S601A		
L3D09	409P974010	CHIP BEADS - MMZ1608S601A		
L3E02	409P975010	CHIP BEADS - MPZ2012S221A		
L3E04	351P317010	COIL-CHOKE-CHIP - PLC-1055-220S		
L3E05	351P317010	COIL-CHOKE-CHIP - PLC-1055-220S		
L3F01	409P974010	CHIP BEADS - MMZ1608S601A		
L3P01	409P974010	CHIP BEADS - MMZ1608S601A		
L3P02	409P974010	CHIP BEADS - MMZ1608S601A		
L3P03	409P974010	CHIP BEADS - MMZ1608S601A		
L3S01	409P974010	CHIP BEADS - MMZ1608S601A		
L7A01	409P974010	CHIP BEADS - MMZ1608S601A		
L7A02	409P974010	CHIP BEADS - MMZ1608S601A		
L7C00	409P974010	CHIP BEADS - MMZ1608S601A		
L7C01	409P974010	CHIP BEADS - MMZ1608S601A		
L7C02	409P974010	CHIP BEADS - MMZ1608S601A		
L7C03	409P974010	CHIP BEADS - MMZ1608S601A		
L7C04	409P974010	CHIP BEADS - MMZ1608S601A		
L7C05	409P974010	CHIP BEADS - MMZ1608S601A		
L7C06	409P974010	CHIP BEADS - MMZ1608S601A		
L7C07	409P974010	CHIP BEADS - MMZ1608S601A		
L7C08	409P974010	CHIP BEADS - MMZ1608S601A		
L7C14	409P975010	CHIP BEADS - MPZ2012S221A		
L7C24	409P974010	CHIP BEADS - MMZ1608S601A		
L7C46	409P974010	CHIP BEADS - MMZ1608S601A		
L7C94	409P974010	CHIP BEADS - MMZ1608S601A		
L7E01	409P974010	CHIP BEADS - MMZ1608S601A		
L7E02	325C420070	COIL-CHIP - 10MH-K		
L7E03	409P975010	CHIP BEADS - MPZ2012S221A		
L7E04	325C410070	COIL-CHIP - 3.3MH-J		
L7E05	325C410050	COIL-CHIP - 2.2MH-J		
L7E06	409P974010	CHIP BEADS - MMZ1608S601A		
L7E07	325C410070	COIL-CHIP - 3.3MH-J		
L7F00	409P975010	CHIP BEADS - MPZ2012S221A		
L7F01	409P975010	CHIP BEADS - MPZ2012S221A		
L7G00	409P974010	CHIP BEADS - MMZ1608S601A		
L7G01	409P974010	CHIP BEADS - MMZ1608S601A		
L7G02	409P974010	CHIP BEADS - MMZ1608S601A		
L7G03	409P974010	CHIP BEADS - MMZ1608S601A		
L7G12	409P975010	CHIP BEADS - MPZ2012S221A		
L7G25	409P975010	CHIP BEADS - MPZ2012S221A		

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#]	△
L7N01	409P975010	CHIP BEADS - MPZ2012S221A		
L8001	409P974010	CHIP BEADS - MMZ1608S601A		
L8002	409P974010	CHIP BEADS - MMZ1608S601A		
L8003	325C411030	COIL-CHIP - 10MH-J		
L8004	409P974010	CHIP BEADS - MMZ1608S601A		
L8007	409P975010	CHIP BEADS - MPZ2012S221A		
L8008	409P975010	CHIP BEADS - MPZ2012S221A		
L8009	409P974010	CHIP BEADS - MMZ1608S601A		
L8010	409P974010	CHIP BEADS - MMZ1608S601A		
L8011	409P974010	CHIP BEADS - MMZ1608S601A		
L8012	325C411030	COIL-CHIP - 10MH-J		
L8014	409P974010	CHIP BEADS - MMZ1608S601A		
L8015	409P974010	CHIP BEADS - MMZ1608S601A		
L8016	409P974010	CHIP BEADS - MMZ1608S601A		
L8017	409P974010	CHIP BEADS - MMZ1608S601A		
L8018	409P974010	CHIP BEADS - MMZ1608S601A		
L8019	409P974010	CHIP BEADS - MMZ1608S601A		
L8020	409P974010	CHIP BEADS - MMZ1608S601A		
L8021	409P974010	CHIP BEADS - MMZ1608S601A		
L8022	409P974010	CHIP BEADS - MMZ1608S601A		
L8030	325C501010	COIL-CHIP - ALQM21NNR47K10		
L8202	409P975010	CHIP BEADS - MPZ2012S221A		
L8203	409P975010	CHIP BEADS - MPZ2012S221A		
L8206	351P265010	COIL-CHOKE-CHIP - ACM2012		
L8302	409P974010	CHIP BEADS - MMZ1608S601A		
L8307	409P974010	CHIP BEADS - MMZ1608S601A		
L8313	409P975010	CHIP BEADS - MPZ2012S221A		
L8318	409P974010	CHIP BEADS - MMZ1608S601A		
L8501	409P974010	CHIP BEADS - MMZ1608S601A		
L8504	409P865090	EMI-F-CHIP - BLM11A121S		
L8511	409P865090	EMI-F-CHIP - BLM11A121S		
L9C01	409P974010	CHIP BEADS - MMZ1608S601A		
L9C51	409P975010	CHIP BEADS - MPZ2012S221A		
L9D01	351P306020	LINE-FILTER - TF3020V-A602Y5R0-01		△
L9D02	351P266020	LINE-FILTER - ELF22V025A		△
L9D03	351P286010	LINE-FILTER - HF2836-353Y1R0-T01		△
L9G01	351P316010	COIL-CHOKE-CHIP - PLC-0755-100		
L9G05	351P314010	COIL-CHOKE-CHIP - MPLC1040L2R2		
L9G06	409P975010	CHIP BEADS - MPZ2012S221A		
L9G07	409P975010	CHIP BEADS - MPZ2012S221A		
L9G08	409P975010	CHIP BEADS - MPZ2012S221A		
L9G09	409P975010	CHIP BEADS - MPZ2012S221A		
L9G10	409P975010	CHIP BEADS - MPZ2012S221A		
L9G12	351P315010	COIL-CHOKE-CHIP - PLC-0735-2R0		
L9G20	409P974010	CHIP BEADS - MMZ1608S601A		
L9G21	409P974010	CHIP BEADS - MMZ1608S601A		
L9G22	409P974010	CHIP BEADS - MMZ1608S601A		
L9G23	409P974010	CHIP BEADS - MMZ1608S601A		
L9G24	409P974010	CHIP BEADS - MMZ1608S601A		
L9G80	409P975010	CHIP BEADS - MPZ2012S221A		
L9G81	409P974010	CHIP BEADS - MMZ1608S601A		
T7C49	409P961010	CHIP-FILT - ACM2012D-9002P		
T7C54	409P961010	CHIP-FILT - ACM2012D-9002P		
T7C57	409P961010	CHIP-FILT - ACM2012D-9002P		
T7C60	409P961010	CHIP-FILT - ACM2012D-9002P		
TRANSFORMERS				
T9A10	350P853010	TRANS-POWER - SRW2630EG-U01V016		

Ref #	Part #	Part Name & Description	[#]	△
VARIABLE RESISTORS				
RV9D00	265P100040	VARISTOR - ERZV10D471CS		
RV9D01	265P100040	VARISTOR - ERZV10D471CS		
CHIP RESISTORS (by value)				
CHIP Type Resistors (Listed by Value)				
Part No.	Value	Part No.	Value	
103P509050	1/16W 0OHM	103P492060	1/16W 1.1K-F	
103P408040	1/10W 2.2-J	103P502060	1/16W 1.2K-J	
103P400050	1/10W 22-J	103P492080	1/16W 1.3K-F	
103P508040	1/16W 2.2-J	103P492090	1/16W 1.5K-F	
103P408060	1/10W 3.3-J	103P493020	1/16W 2K-F	
103P488080	1/4W 4.7-J	103P493030	1/16W 2.2K-F	
103P480010	1/4W 10-J	103P502090	1/16W 2.2K-J	
103P500050	1/16W 22-J	103P493040	1/16W 2.4K-F	
103P990050	1/16W 22-JX4	103P503000	1/16W 2.7K-J	
103P480050	1/4W 22-J	103P493060	1/16W 3K-F	
103P500060	1/16W 27-J	103P493070	1/16W 3.3K-F	
103P500070	1/16W 33-J	103P503010	1/16W 3.3K-J	
103P990070	1/16W 33-JX4	103P494000	1/16W 4.3K-F	
103P793080	1/16W 36F	103P494010	1/16W 4.7K-F	
103P794010	1/16W 47-F	103P503030	1/16W 4.7K-J	
103P500090	1/16W 47-J	103P494030	1/16W 5.6K-F	
103P501000	1/16W 56-J	103P503040	1/16W 5.6K-J	
103P991010	1/16W 56-JX4	103P494050	1/16W 6.8K-F	
103P501010	1/16W 68-J	103P403070	1/8W 10K-J	
103P509090	1/16W 75-J	103P494090	1/16W 10K-F	
103P401030	1/10W 100-J	103P503070	1/16W 10K-J	
103P490010	1/16W 100F	103P495010	1/16W 12K-F	
103P501030	1/16W 100-J	103P503080	1/16W 12K-J	
103P401050	1/10W 150-J	103P503090	1/16W 15K-J	
103P501050	1/16W 150-J	103P495050	1/16W 18K-F	
103P501060	1/16W 180-J	103P404000	1/8W 18K-J	
103P490080	1/16W 200-F	103P495070	1/16W 22K-F	
103P490090	1/16W 220-F	103P504010	1/16W 22K-J	
103P501070	1/16W 220-J	103P496010	1/16W 33K-F	
103P501080	1/16W 270-J	103P504030	1/16W 33K-J	
103P491020	1/16W 300-F	103P504040	1/16W 39K-J	
103P401090	1/10W 330-J	103P504050	1/16W 47K-J	
103P501090	1/16W 330-J	103P496060	1/16W 51K-F	
103P491050	1/16W 390-F	103P496070	1/16W 56K-F	
103P502000	1/16W 390-J	103P496090	1/16W 68K-F	
103P491070	1/16W 470-F	103P504080	1/16W 82K-J	
103P502010	1/16W 470-J	103P504090	1/16W 100K-J	
103P502020	1/16W 560-J	103P505000	1/16W 120K-J	
103P492010	1/16W 680-F	103P505020	1/16W 180K-J	
103P502030	1/16W 680-J	103P505030	1/16W 220K-J	
103P492020	1/16W 750-F	103P498030	1/16W 270K-F	
103P502040	1/16W 820-J	103P505050	1/16W 330K-J	
103P492050	1/16W 1K-F	103P506000	1/16W 820K-J	
103P502050	1/16W 1K-J	103P506010	1/16W 1M-J	
RESISTORS				
Conventional Resistors (By Ref #)				
Ref #	Part #	Part Name & Description	[#]	
R9A01	109P179020	R-CEMT-PLT - 1.8 OHM-J		
R9A02	109P179020	R-CEMT-PLT - 1.8 OHM-J		
R9A03	109C010090	R-COMP - 1/2W 4.7M-K		△

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#]	△
Ref #	Part #	Part Name & Description	[#]	
R9A01	109P179020	R-CEMT-PLT - 1.8 OHM-J		
R9A02	109P179020	R-CEMT-PLT - 1.8 OHM-J		
R9A03	109C010090	R-COMP - 1/2W 4.7M-K		△
R9A09	103P145030	R-CARBON - 1/2W 220K-J		
R9A11	103P145030	R-CARBON - 1/2W 220K-J		
R9A19	103P144070	R-CARBON - 1/2W 68K-J		
R9A20	103P144070	R-CARBON - 1/2W 68K-J		
R9A21	103C187050	R-METAL - 2W 0.39-J		
R9A22	103C187050	R-METAL - 2W 0.39-J		
R9A25	103P142060	R-CARBON - 1/2W 1.2K-J		
R9A30	109D151060	R-CARBON - 1/4W 68-J		
R9A42	103P145030	R-CARBON - 1/2W 220K-J		
R9A43	103P145030	R-CARBON - 1/2W 220K-J		
R9A76	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A77	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A78	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A82	103C390050	R-METAL-P - 3W 22-J		
R9A83	103P144070	R-CARBON - 1/2W 68K-J		
R9A09	103P145030	R-CARBON - 1/2W 220K-J		
R9A11	103P145030	R-CARBON - 1/2W 220K-J		
R9A19	103P144070	R-CARBON - 1/2W 68K-J		
R9A20	103P144070	R-CARBON - 1/2W 68K-J		
R9A21	103C187050	R-METAL - 2W 0.39-J		
R9A22	103C187050	R-METAL - 2W 0.39-J		
R9A25	103P142060	R-CARBON - 1/2W 1.2K-J		
R9A30	109D151060	R-CARBON - 1/4W 68-J		
R9A42	103P145030	R-CARBON - 1/2W 220K-J		
R9A43	103P145030	R-CARBON - 1/2W 220K-J		
R9A76	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A77	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A78	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A82	103C390050	R-METAL-P - 3W 22-J		
R9A83	103P144070	R-CARBON - 1/2W 68K-J		

CHIP CAPACITORS (by value)

CHIP Type Capacitors (Listed by Value)

Part No.	Value	Part No.	Value
154P340010	CK50V 1P-C	141P142090	B25V 0.047M-K
154P340060	CK50V 5P-C	141P143020	B16V 0.082M-K
154P341010	CH50V 10P-C	141P143030	B16V 0.1M-K
154P341050	CH50V 15P-J	141P144020	F25V 0.1M-Z
154P341070	CH50V 18P-J	141P134090	F50V 0.1M-Z
154P341090	CH50V 22P-J	141P135080	F50V/25V 0.1M-Z
154P342010	CH50V 27P-J	141P146040	B10V 0.22M-K
154P342070	CH50V 47P-J	141P138080	B25V 0.33M-K
154P353060	SL50V 100P-J	141P146050	B16V 0.33M-K
154P344030	CH50V 220P-J	141P148000	B25V 1M-K
154P354040	SL50V 220P-J	141P134070	B16V 1M-K
154P345010	CH50V 470P-J	141P144060	F25V 1M-Z
154P335010	CH50V 470P-J	141P147020	B10/6.3V 1M-K
141P140050	B50V 470P-K	141P147040	B6.3V 2.2M-K
141P140090	B50V 1000P-K	141P147060	B6.3V 4.7M-K
154P345090	CH25V 1000P-J	181P822030	16V 10M-M 105C
141P141010	B50V 1500P-K	181P826050	50V 10M-M 105C
141P141030	B50V 2200P-K	189P253020	B16V 10M-M
141P141060	B50V 3900P-K	189P253010	B6.3V 10M-M
141P142000	B50V 8200P-K	181P822040	16V 22M-M 105C
141P142010	B50V 0.01M-K	181P825010	35V 22M-M 105C

Ref #	Part #	Part Name & Description	[#]	△
141P143080	F50V 0.01M-Z	181P820010	6.3V 22M-M 105C	
141P132030	B50V 0.015M-K	181P822060	16V 47M-M 105C	
141P142050	B25V 0.022M-K	181P820030	6.3V 47M-M 105C	
141P142070	B25V 0.033M-K	181P822070	16V 100M-M 105C	

CAPACITORS AND TRIMMERS

Conventional Capacitors (By Ref #)

Ref #	Part #	Part Name & Description	[#]
C3E26	181P354090	C-ELEC - 35V 470M-M	
C3E27	181P354090	C-ELEC - 35V 470M-M	
C3E65	181P735030	C-ELEC - 25V 1000M-M 105C	
C3E69	181P735030	C-ELEC - 25V 1000M-M 105C	
C7AA9	189P252020	C-ELE-DBL-LAYER - EECS0HD224V	
C9A00	189P185090	C-CER - AC250V E2200P-M	
C9A01	189P185090	C-CER - AC250V E2200P-M	
C9A02	185D122040	C-ELEC - H200V 820M-M	
C9A03	185D122040	C-ELEC - H200V 820M-M	
C9A05	189P217090	C-CER-AC - AC250V E2200P-M	
C9A06	189P217090	C-CER-AC - AC250V E2200P-M	
C9A08	189P185090	C-CER - AC250V E2200P-M	
C9A09	189P185090	C-CER - AC250V E2200P-M	
C9A10	189P185090	C-CER - AC250V E2200P-M	△
C9A11	189P185090	C-CER - AC250V E2200P-M	
C9A14	189P217090	C-CER-AC - AC250V E2200P-M	△
C9A19	154P400050	C-CER - B1KV 1000P-K	
C9A21	181P555080	C-ELEC - 50V 10M-M	
C9A27	185D122040	C-ELEC - H200V 820M-M	
C9A30	154P400050	C-CER - B1KV 1000P-K	
C9A34	181P734000	C-ELEC - 16V 2200M-M 105C	
C9A35	181P734000	C-ELEC - 16V 2200M-M 105C	
C9A39	181P555000	C-ELEC - 35V 2200M-M	
C9A46	142P010090	C-CER - B500V 470P-K	
C9A47	181P731090	C-ELEC - 10V 470M-M 105C LOWR	
C9A48	181P555040	C-ELEC - 50V 1M-M	
C9A70	189P258010	C-PLSTIC-PP - 630V-3300P-J	
C9D00	189P153060	C-M-POLY-AC - AC125/250V 0.22M-M	
C9D01	189P153060	C-M-POLY-AC - AC125/250V 0.22M-M	!
C9D02	189P153060	C-M-POLY-AC - AC125/250V 0.22M-M	
C9G50	189P256060	C-AL-ELEC - 10V 680	
C9G51	189P256060	C-AL-ELEC - 10V 680	
C9G52	189P256060	C-AL-ELEC - 10V 680	

SWITCHES

S7F01	434P004010	LAMP SWITCH	
S7L01	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L02	432P109010	SW-KEY BOARD - KSHS611BT	ei
S7L11	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L12	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L13	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L14	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L15	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L16	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L17	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L18	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L19	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L21	432P109010	SW-KEY BOARD - KSHS611BT	ei
S7L22	432P109010	SW-KEY BOARD - KSHS611BT	ei
S7L23	432P109010	SW-KEY BOARD - KSHS611BT	ei

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#]	△
S7L24	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L25	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L26	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L27	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L28	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L29	432P109010	SW-KEY BOARD - KSHS611BT	ei	
FUSES				
F9A00	283P144080	FUSE - 125V 5A		△
F9A01	283P144080	FUSE - 125V 5A		△
F9A02	283P144080	FUSE - 125V 5A		△
F9D00	283D161010	FUSE - 125V 10A		△
F9G00	283P170030	FUSE-CHIP - F0603FA 2000V032T		△
F9G01	283P170090	FUSE-CHIP - F0603FA 6000V024T		△
F9G02	283P170030	FUSE-CHIP - F0603FA 2000V032T		△
K9A10	287P111050	RELAY-POWER - LKT1AF-12V		△
K9A20	287P111050	RELAY-POWER - LKT1AF-12V		△
K9A21	287P111050	RELAY-POWER - LKT1AF-12V		△
PRINTED CIRCUIT BOARDS				
	934C266002	ASSY-PWB-SBL-R	ei	
	934C269002	ASSY-PWB-SBL-L	ei	
	934C282001	ASSY-PWB-MAIN	abcfgj	
	934C282002	ASSY-PWB-MAIN	dh	
	934C282003	ASSY-PWB-MAIN	ei	
	934C283001	ASSY-PWB-POWER		
	934D012001	ASSY-PWB-LED2	ei	
	935D981001	ASSY-PWB-FRONT1		
	935D982001	ASSY-PWB-CONT1	abcdfghj	
	935D982002	ASSY-PWB-CONT1	ei	
	935D983001	ASSY-PWB-LED	abcdfghj	
	935D984001	ASSY-PWB-PREAMP	abcfgj	
	935D984002	ASSY-PWB-PREAMP	dehi	
	935D985001	ASSY-PWB-SW-LAMP		
	935D998001	ASSY-PWB-HDMI-FRNT	dehi	
	938P127010	ASSY-BALLAST-PWB		
MISCELLANEOUS ELECTRICAL				
Cables				
	242D573060	CABLE-USB		
	246C582020	CABLE-3D		
	246C351060	AC POWER CORD		
	246C578010	CABLE-DVI-M-DVI-E		
	242D575010	HDMI CABLE	ehi	
Cores				
	411D044020	CORE-FERRITE - ZCAT2032-0930		
	411D062010	CORE-FERRITE - ZCAT1518-0730		
	411P029010	CORE-FERRITE - ZCAT3513S		
Fans				
	299P335010	COOLING-FAN - D34902-57MDEA1		
	299P321010	FAN-SCIROCCO - BG0703-B042-00L-T3		
	299P339010	FAN-DMD		
Optical Engines				
	938P126040	OPTICAL-ENGINE - 60"	ab	
	938P126050	OPTICAL-ENGINE - 65"	cdf	
	938P126060	OPTICAL-ENGINE - 73"	ghj	

Ref #	Part #	Part Name & Description	[#]	△
	955B378001	OPTICAL ENGINE - 65"	e	
	955B378002	OPTICAL ENGINE - 73"	i	
Photo Couplers				
	PC9A10 268P125010	PHOTO-COUPLER - FOD617C		△
	PC9A20 268P125010	PHOTO-COUPLER - FOD617C		△
Quartz Crystals				
X2001	285P481030	QTZ-CRYST - 28.322MHZ		
X3P01	285P481020	QTZ-CRYST - 12.288MHZ		
X7A01	285P403020	QTZ-CRYST - 32.768MHZ		
X7A02	285P481080	QTZ-CRYST - 20.000MHZ		
X7G00	285P391040	QTZ-CRYST - 74.25MHZ		
X8001	285P479030	QTZ-CRYST - 55.474MHZ		
X80T0	285P481050	QTZ-CRYST - 25.14MHZ		
X8301	285P481070	QTZ-CRYST - 7.3728MHZ		
X8501	285P464040	QTZ-CRYST - 24.576MHZ		
Relays				
K9A10	287P111050	RELAY-POWER - LKT1AF-12V		△
K9A20	287P111050	RELAY-POWER - LKT1AF-12V		△
K9A21	287P111050	RELAY-POWER - LKT1AF-12V		△
Tuner				
TU101	295P544030	NTSC/ATSC/QAM TUNER		△
Other				
	915B403001	LAMP-CARTRIDGE (V39)		△
	938P137010	MODULE-COLOR-WHEEL		
	480P084010	SPEAKER - 4 OHM 10W		
	761D999010	LED-CHIP	abcdfghj	
AG9D00	299P340010	SURGE-SUPPRESSOR - DE37-452M-A21F		
Z7N01	938P078010	UNIT-PREAMP		
MISCELLANEOUS Cabinet/Mechanical				
	096Z465030	TAPE-LENS	cd fghij	
	096Z465080	TAPE-LENS	abcd fghj	
	299P337010	SENSOR-LAMP-TEMP	aefghi	
	572C013010	SPRING-DOOR	abcd fghj	
	572C015010	SPRING-DOOR	i	
	593B259020	HOLDER-MIRROR-T	e	
	593B269010	BRACKET-MIRROR-BTM	ghij	
	593B279010	HOLDER-MIRROR-BTM	ghij	
	593B333010	BRACKET-MIRROR-LEFT	cdef	
	593B333020	BRACKET-MIRROR-RIGHT	cdef	
	593B370010	HOLDER-MIRROR-T	ghij	
	601D001030	STIFFENER, 703mm	cdef	
	601D001040	STIFFENER, 1100mm	eghij	
	601D001050	STIFFENER, 850mm	ghij	
	621B182030	HOLDER-MIRROR-SIDE-R	cd fghij	
	621B182040	HOLDER-MIRROR-SIDE-L	cd fghij	
	621B186010	HOLDER-SBL-R	e	
	621B186020	HOLDER-SBL-L	e	
	621B189020	COVER-HOLDER-MIRROR	e	
	621B192010	HOLDER-SBL-R	i	
	621B192020	HOLDER-SBL-L	i	
	622C489070	SPACER-SPEAKER	abcd fghj	
	622C544010	HOLDER-BUTTON-POWER	e	

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#]	▲
	622D484010	HOLDER-LED		
	623D418010	HOLDER-FAN		
	623D439020	HOLDER-MIRROR-EDGE	cdef	
	623D439030	HOLDER-MIRROR-EDGE-T	ghij	
	623D439040	HOLDER-MIRROR-EDGE	ghij	
	623D439050	HOLDER-MIRROR-EDGE	ab	
	642B177010	SUPPORT BALLAST		
	642C438010	DAMPER-SPEAKER		
	704B229010	BUTTONS-CONTROL	i	
	740B239010	BUTTON POWER	abcfgj	
	740B239020	BUTTON POWER	dh	
	750A611010	BOX-MIRROR	e	
	750A611020	BOX-MIRROR	cdf	
	750A638010	BOX-MIRROR	ghij	
	750A658010	BOX-MIRROR	ab	
	761A354020	BASE-COMMON	abcdf	
	761A355030	COVER BACK	abcdef	
	761A359030	COVER-BACK	ghij	
	761B468010	PANEL-CONTROL	e	
	761B471010	COVER-PORHOLE		
	761B480010	DOOR FRONT	e	
	761B483010	SPEAKER-COVER	ei	
	761B505010	DOOR-FRONT	ac	
	761B505020	DOOR-FRONT	d	
	761B506010	DOOR-FRONT	g	
	761B506020	DOOR-FRONT	h	
	761B511010	DOME-SPEAKER-R		
	761B511020	DOME-SPEAKER-L		
	761B514010	COVER-SERVICE PORT		
	761C788010	LED-SBL LENS-R		
	761C788020	LED-SBL LENS-L		
	761D999010	LED-CHIP		
	762D075010	COVER BLASTER (PIN)		
	KIT-MIR WD65835	MIRROR 65"		
	KIT-MIR WD73735	MIRROR 73"		
	KIT-MIR 767D086010	MIRROR 60"		
	KIT-MIR 767D086020	MIRROR 65"		
	771D127030	PAD-BOTTOM FEET		
	771D139010	PAD-BOTTOM FEET		
	771D139020	PAD-MIRROR-HOLDER		
COSMETIC PARTS				
	716C044010	BADGE-BRAND	abcdfghj	
	716C047010	BADGE-DIAMOND	ei	
	716C053010	BADGE-BRAND	ei	

Ref #	Part #	Part Name & Description	[#]	▲
	760C798010	INLAY-FRONT-CONTROL	e	
	760C799040	INLAY-FRONT-INPUT	e	
	760C803010	INLAY-FRONT-CONTROL	i	
	760C804030	INLAY-FRONT-INPUT	i	
	760C806010	INLAY-LED-RIGHT	i	
	760C806020	INLAY-LED-LEFT	i	
	760C810010	INLAY FRONT	abcf	
	760C810020	INLAY FRONT	d	
	760C811010	INLAY CONTROL	abcdf	
	760C818010	INLAY-CONTROL	ghj	
	760C819010	INLAY-INPUT	gj	
	760C819020	INLAY-INPUT	h	
	760D667010	INLAY-LED-RIGHT	e	
	760D667020	INLAY-LED-LEFT	e	
	761B476010	DOOR-FRONT	i	
	761B478020	COVER-LAMP		
	761B505030	DOOR-FRONT	bf	
	761B506030	DOOR-FRONT	j	
	761B507050	ORNAMENT L/R	f	
	761B507060	ORNAMENT L/R	f	
	761B508030	ORNAMENT L/R	b	
	761B508040	ORNAMENT L/R	b	
	761B509050	ORNAMENT-L	j	
	761B509060	ORNAMENT-R	j	
	761B507010	FRONT-ORNAMENT L	c	
	761B507020	FRONT-ORNAMENT R	c	
	761B507030	FRONT-ORNAMENT L	d	
	761B507040	FRONT-ORNAMENT R	d	
	761B508010	FRONT-ORNAMENT L	a	
	761B508020	FRONT-ORNAMENT R	a	
	761B509010	FRONT-ORNAMENT L	g	
	761B509020	FRONT-ORNAMENT R	g	
	761B509030	FRONT-ORNAMENT L	h	
	761B509040	FRONT-ORNAMENT R	h	
ACCESSORIES				
	242D483020	CABLE-IR-EMITTER - 1-HEAD	dehi	
	290P137010	REMOTE-CONTROL - V33-V39	abcdfghj	
	290P137020	REMOTE-CONTROL - V39++	ei	
	774P001010	CLOTH-SOFT	ei	
	I/B WD60735	IB PCTV		
	I/QR WD60735	QR GUIDE		
	I/Q WD60735	QUICK CONNECT GUIDE		

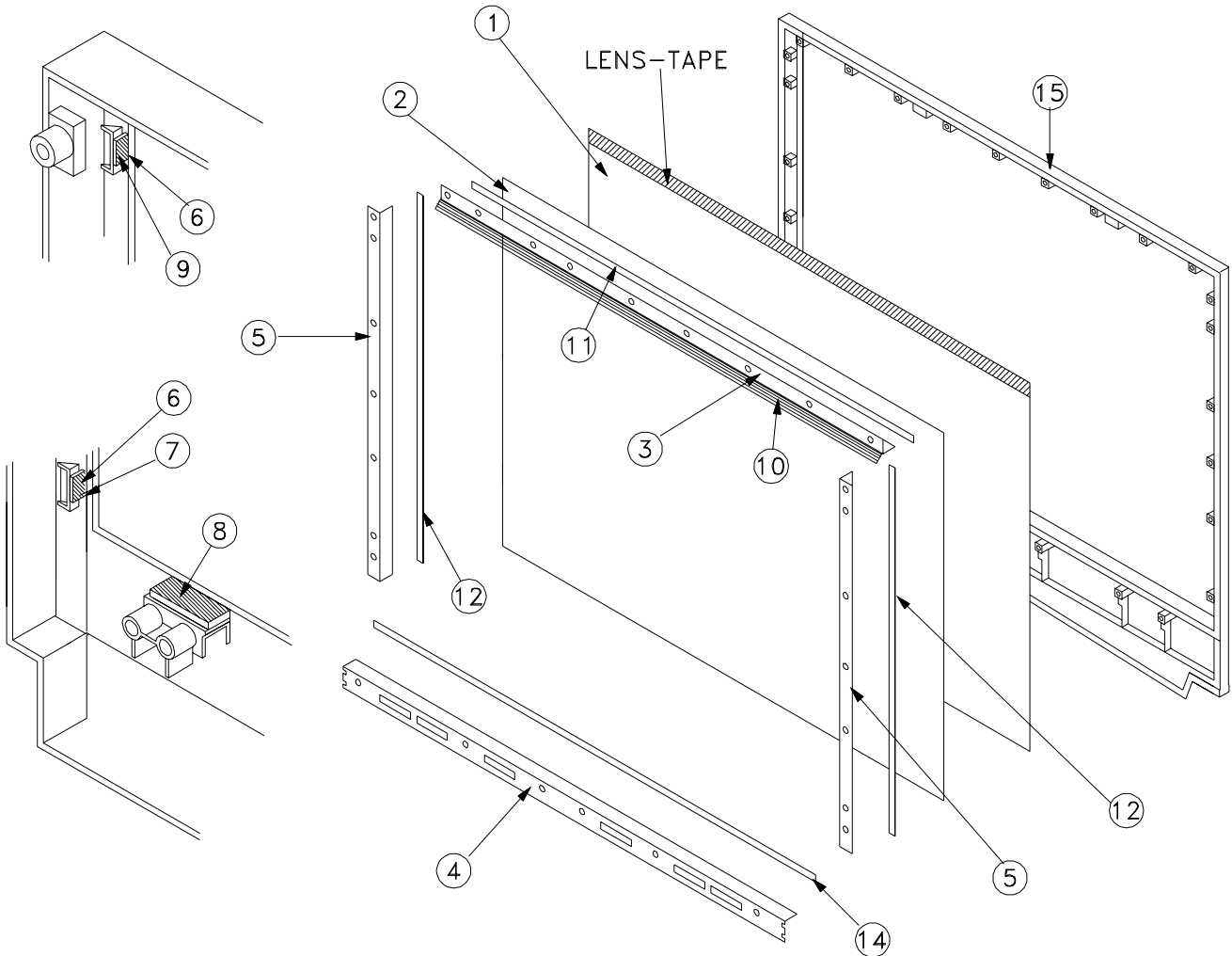
MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g) WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

SCREEN PARTS

Ref#	Part#	Description	Model
(0)	LENS-TAPE	TAPE-LENS	
(1)	491P217010	SCREEN-LENTICULAR	ab
(1)	491P217020	SCREEN-LENTICULAR	cdef
(1)	491P217030	SCREEN-LENTICULAR	ghij
(2)	491P218010	LENS-FRESNEL	ab
(2)	491P218020	LENS-FRESNEL	cdef
(2)	491P218030	LENS-FRESNEL	ghij
(3)	593B261020	HOLDER-SCREEN-T	e
(3)	593B322010	HOLDER-SCREEN-T	i
(3)	593B341010	HOLDER-SCREEN T	cdf
(3)	593B350010	HOLDER-SCREEN-T	ab
(3)	593B371010	HOLDER-SCREEN-T	ghj
(4)	593B263020	HOLDER-SCREEN-B	e
(4)	593B267020	HOLDER-SCREEN-B	i
(4)	593B342010	HOLDER-SCREEN B	cdf
(4)	593B359010	HOLDER-SCREEN-B	ab
(4)	593B372010	HOLDER-SCREEN-B	ghj
(5)	621B184020	HOLDER-SCREEN-S	e
(5)	621B196010	HOLDER-SCREEN S	ab
(5)	621B196020	HOLDER-SCREEN S	cdf
(5)	621B207010	HOLDER-SCREEN-S	ghj

Ref#	Part#	Description	Model
(6)	622C487080	SPACER	abcdghj
(7)	622C487030	SPACER-BEZEL-CUSHION3	ei
(8)	622C487050	SPACER-BEZEL-CUSHION2	e
(9)	622C487060	SPACER-BEZEL-CUSHION1	ei
(10)	621B208020	COVER-HOLDER-T	ghj
(11)	622C536070	SPACER-SCREEN-T	e
(11)	622C536080	SPACER-SCREEN-T	i
(11)	622C609010	SPACER-SCREEN-T	ghj
(12)	622C537080	SPACER-SCREEN-S	e
(12)	622C537090	SPACER-SCREEN-S	i
(12)	622C608010	SPACER-SCREEN-S	ghj
(14)	622C538070	SPACER-SCREEN-B	i
(14)	622C550080	SPACER-SCREEN-B	cdf
(14)	622C550090	SPACER-SCREEN-B	ab
(14)	622C601010	SPACER-SCREEN-B	e
(14)	622C601030	SPACER-SCREEN-B	ghj
(15)	761A357010	BEZEL-FRONT	i
(15)	761A361010	BEZEL-FRONT	e
(15)	761A382010	BEZEL-FRONT	cdf
(15)	761A383010	BEZEL-FRONT	ab
(15)	761A384010	BEZEL-FRONT	ghj



MIRROR PARTS LIST

Model	KIT	Description	Part #
WD-60C8 WD-60735	KIT-MIR 767D086010	MIRROR	767D086010
		HOLDER-MIRROR-EDGE (BTM)	623D439050
		HOLDER-MIRROR-EDGE (SIDE)	623D439020
WD-65735 WD-65736 WD-65C8	KIT-MIR 767D086020	MIRROR	767D086020
		STIFFENER, 22-11/16 in. (SIDE)	601D001030
		HOLDER-MIRROR-EDGE	623D439020
WD-65835	KIT-MIR WD65835	MIRROR	767D084020
		STIFFENER, 22-11/16 in. (SIDE)	601D001030
		STIFFENER, 43-5/16 in. (TOP)	601D001040
		HOLDER-MIRROR-EDGE	623D439020
WD-73C8 WD-73735 WD-73736 WD-73835	KIT-MIR WD73735	MIRROR	767D084030
		STIFFENER, 43-5/16 in. (TOP)	601D001040
		STIFFENER, 33-1/2 in. (SIDE)	601D001050
		COVER-HOLDER-MIRROR	623D439030
		HOLDER-MIRROR-EDGE (SIDE/BTM)	623D439040

MIRROR MOUNTING HARDWARE

Screen Size	Part #	Description	Detail
65" / 73"	621B182030	HOLDER-MIRROR-SIDE	LEFT
	621B182040	HOLDER-MIRROR-SIDE	RIGHT
65"	593B333010	BRACKET-MIRROR (BTM)	LEFT
	593B333020	BRACKET-MIRROR (BTM)	RIGHT
WD-65835	593B259020	HOLDER-MIRROR-TOP	
WD-73735 WD-73736 WD-73835	593B370010	HOLDER MIRROR-TOP	

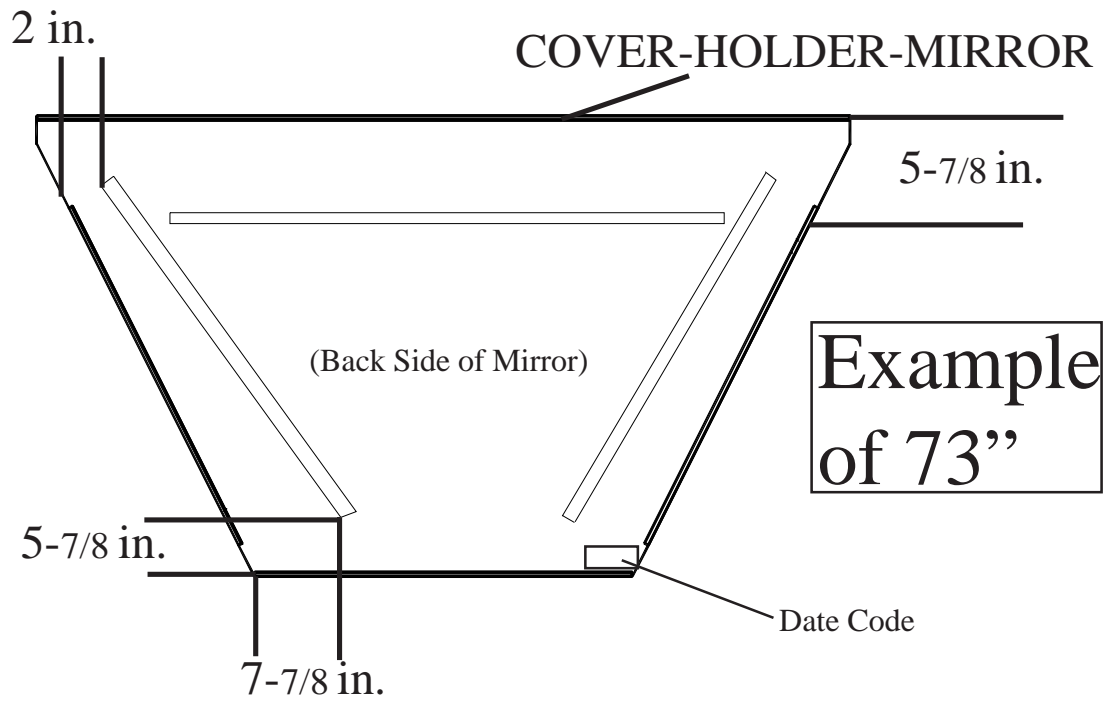
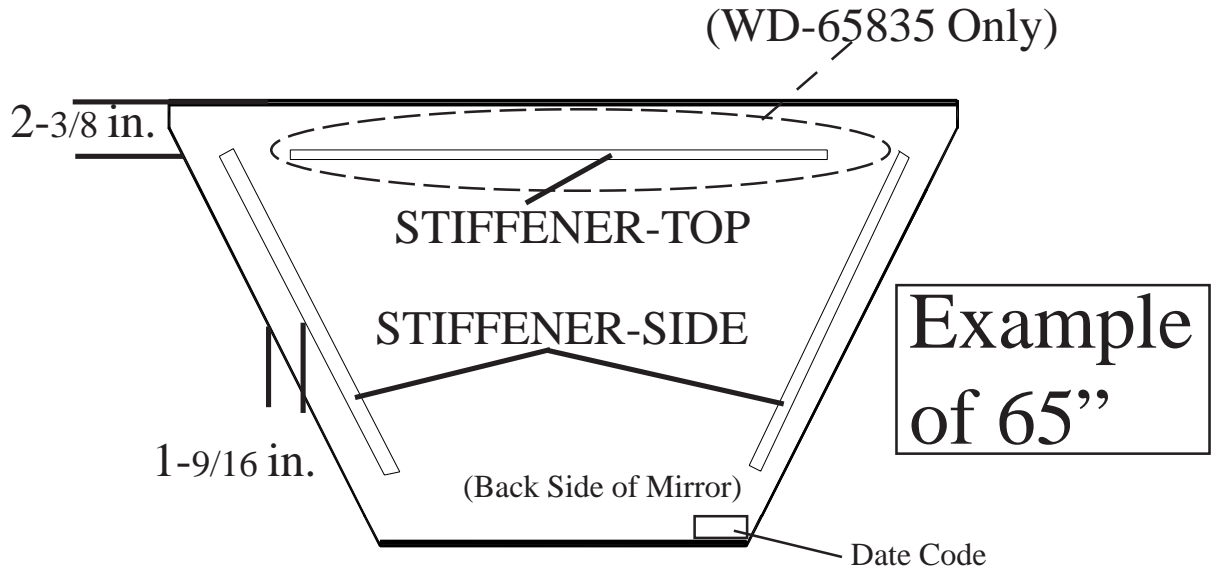
Mirror Installation

Mirror-1: Prepare mirror for installation by adding STIFFENERS to the back of mirror. Back of mirror is identified by the label in the lower right corner.

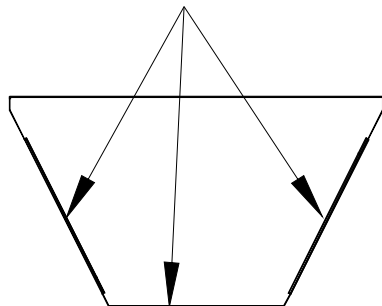
NOTE: No stiffeners are used in the 60 inch models.

STIFFENER INSTALLATION

	Side Stiffener	Top Stiffener
65" Models	1.6 in. (40mm) SIDE Edge	N/A
WD-65835	1.6 in. (40mm) SIDE Edge	2.4 in, (60mm) from TOP Edge
73"Models	5.9 in. (150mm) from BOTTOM edge, 7.9 in. (200mm) from SIDE-BOTTOM and taper to 2 in. (50mm)from side near TOP	5.9 in. (150mm) from TOP Edge

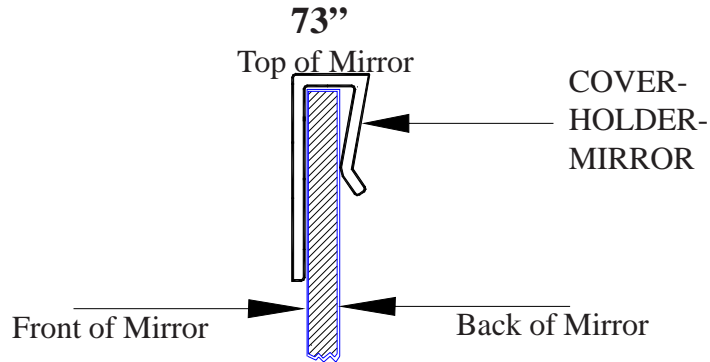


Mirror-2: Install HOLDER-MIRROR-EDGE to both side edges and the bottom of the mirror

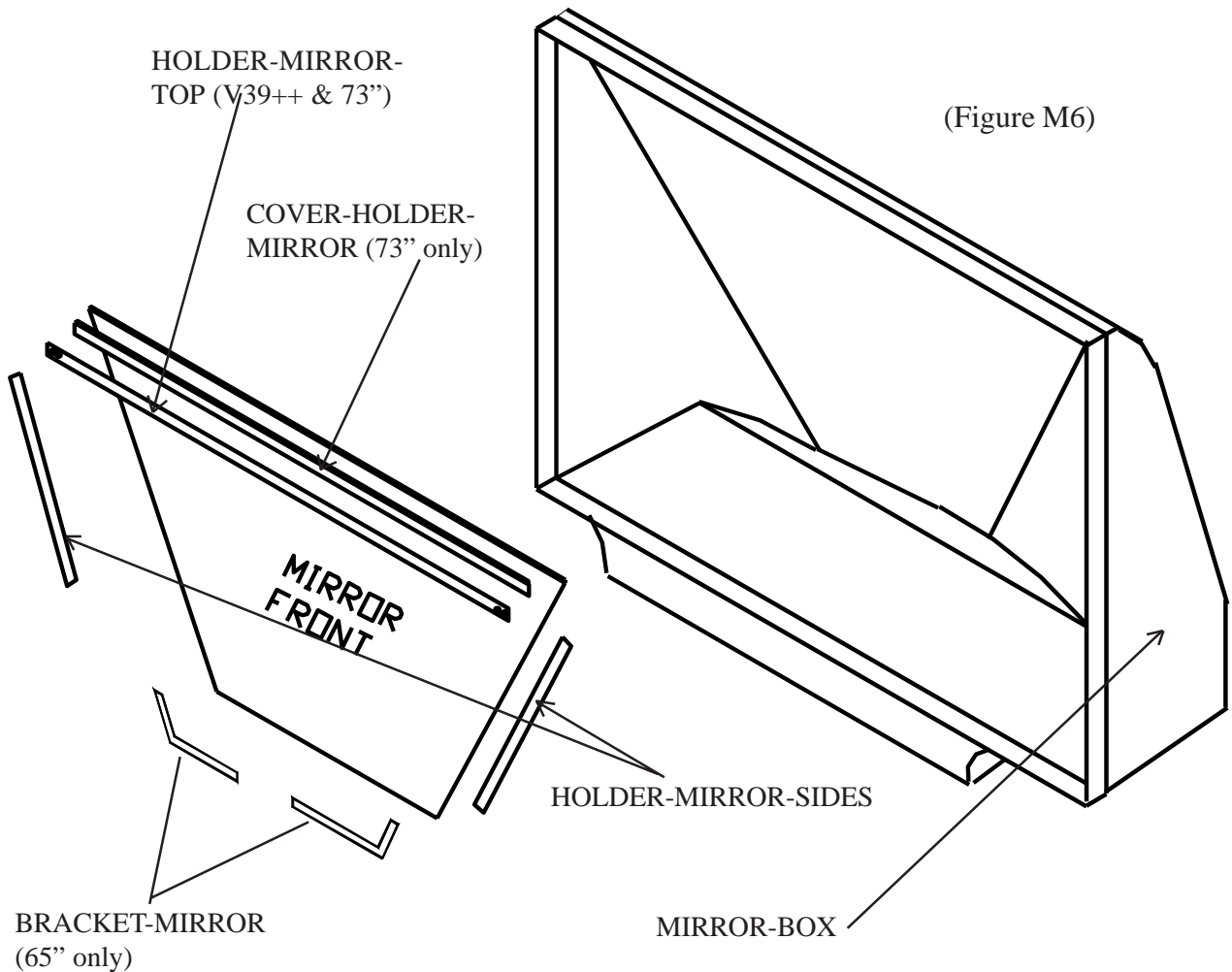


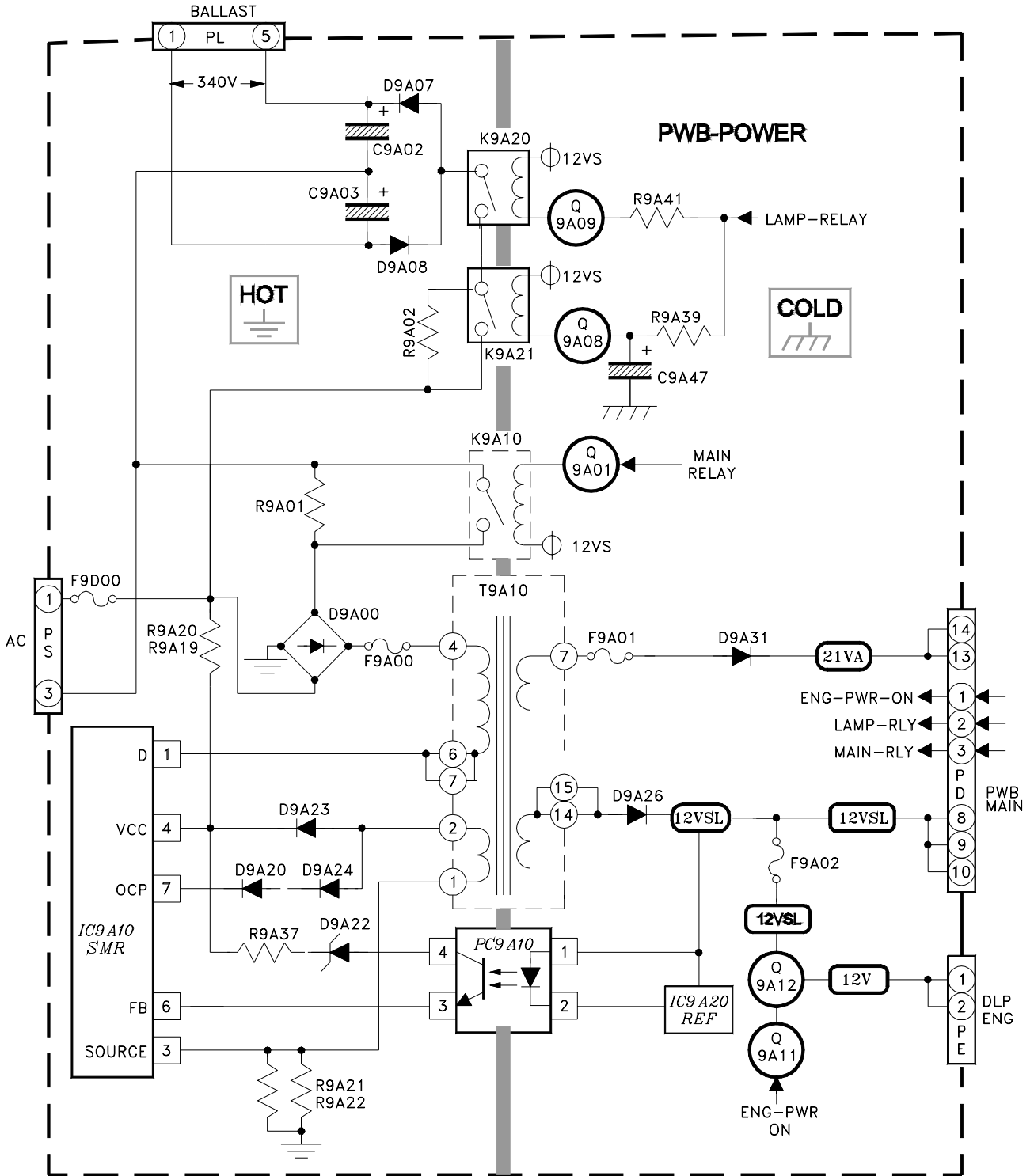
Mirror-3: Install mirror into MIRROR-BOX and secure with HOLDER-MIRROR-SIDE (60" models do not have HOLDER-MIRROR-SIDE)

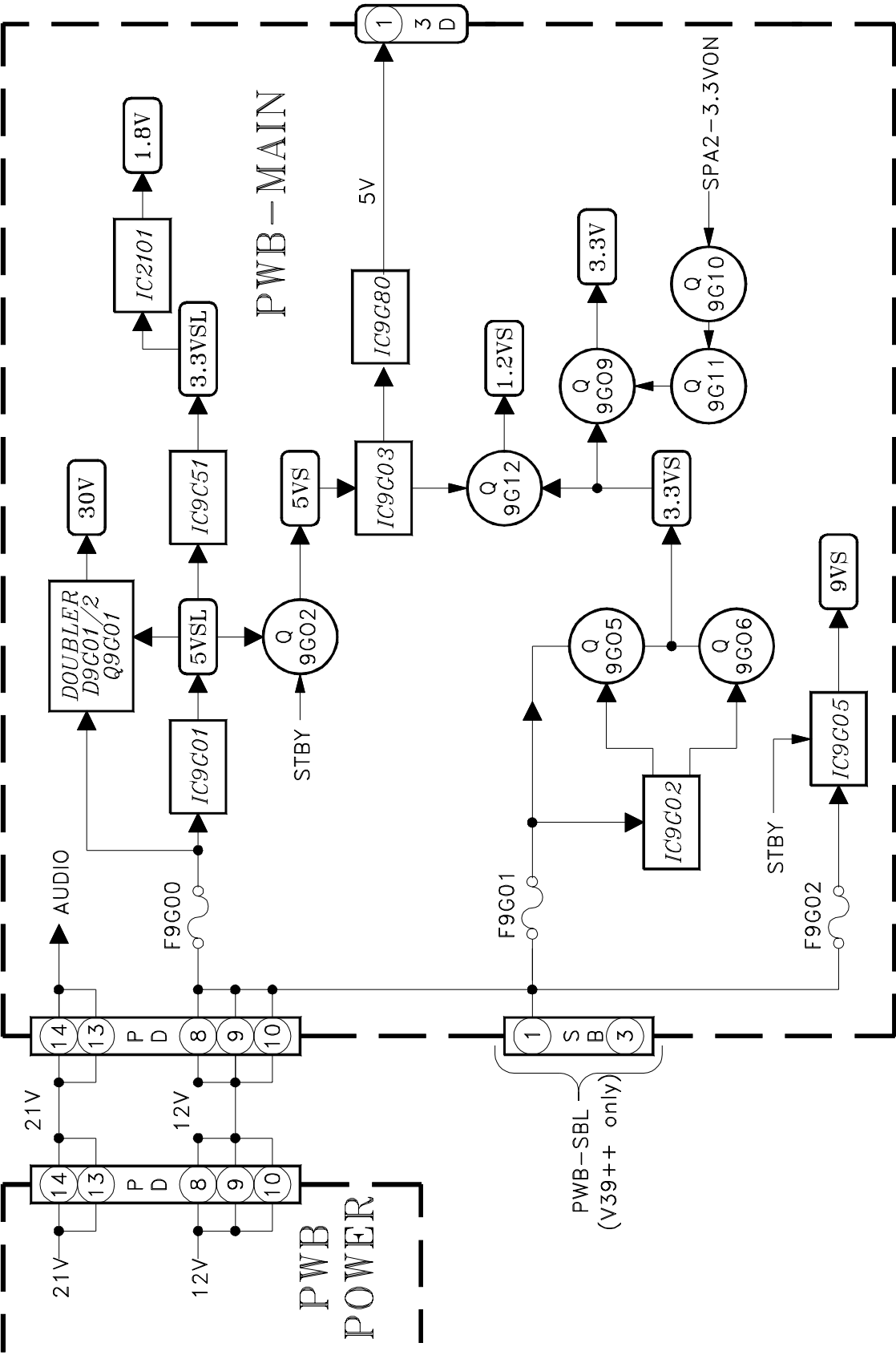
Mirror-4: Install COVER-HOLDER-MIRROR to top of mirror (73" models only)



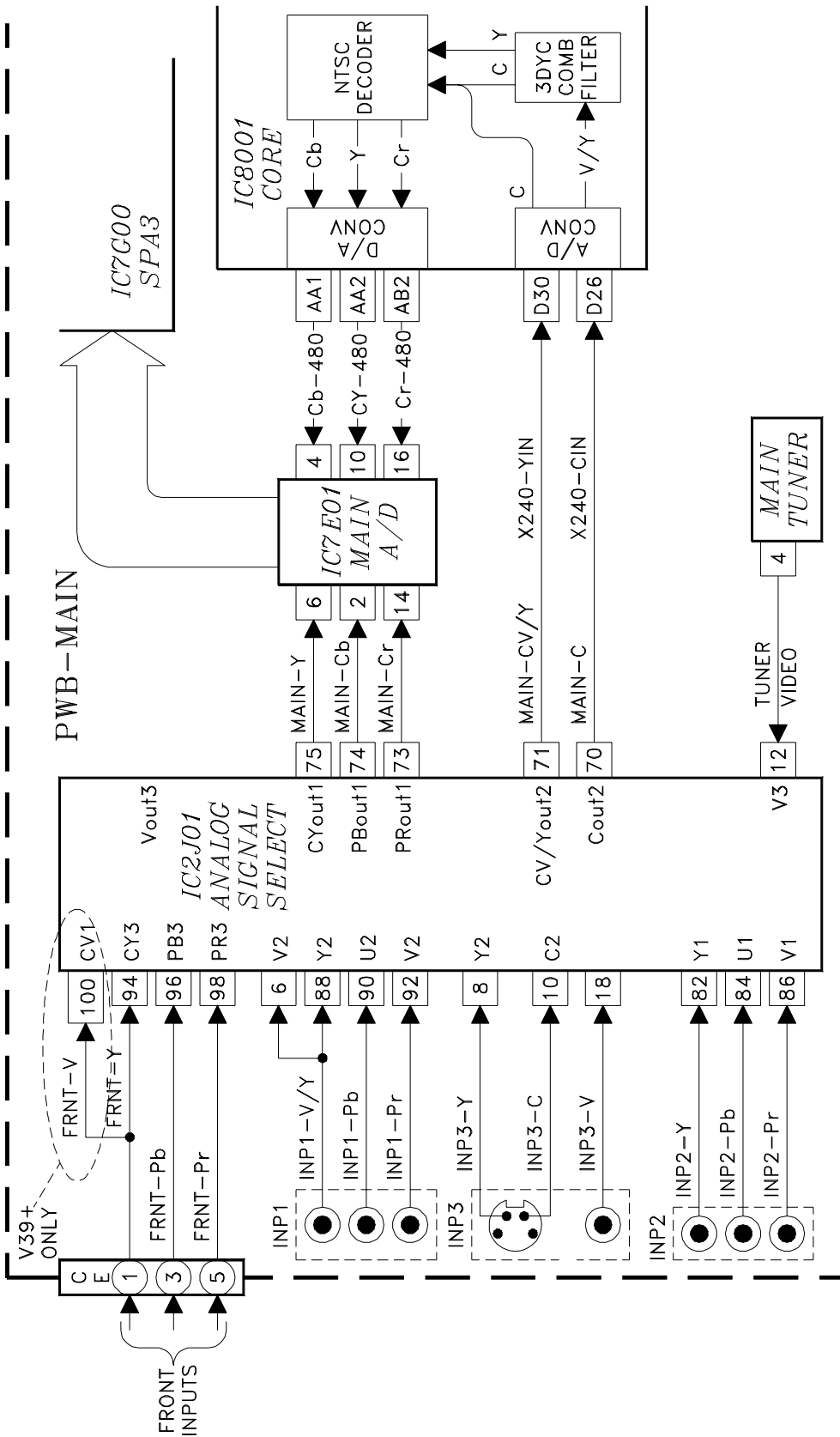
Mirror-5: 73" & V39++ Models: Install HOLDER-MIRROR-TOP. (HOLDER-MIRROR-TOP will fit into the groove of the COVER-HOLDER-MIRROR)
65" Models: Install BRACKET-MIRROR to bottom left and right corners.



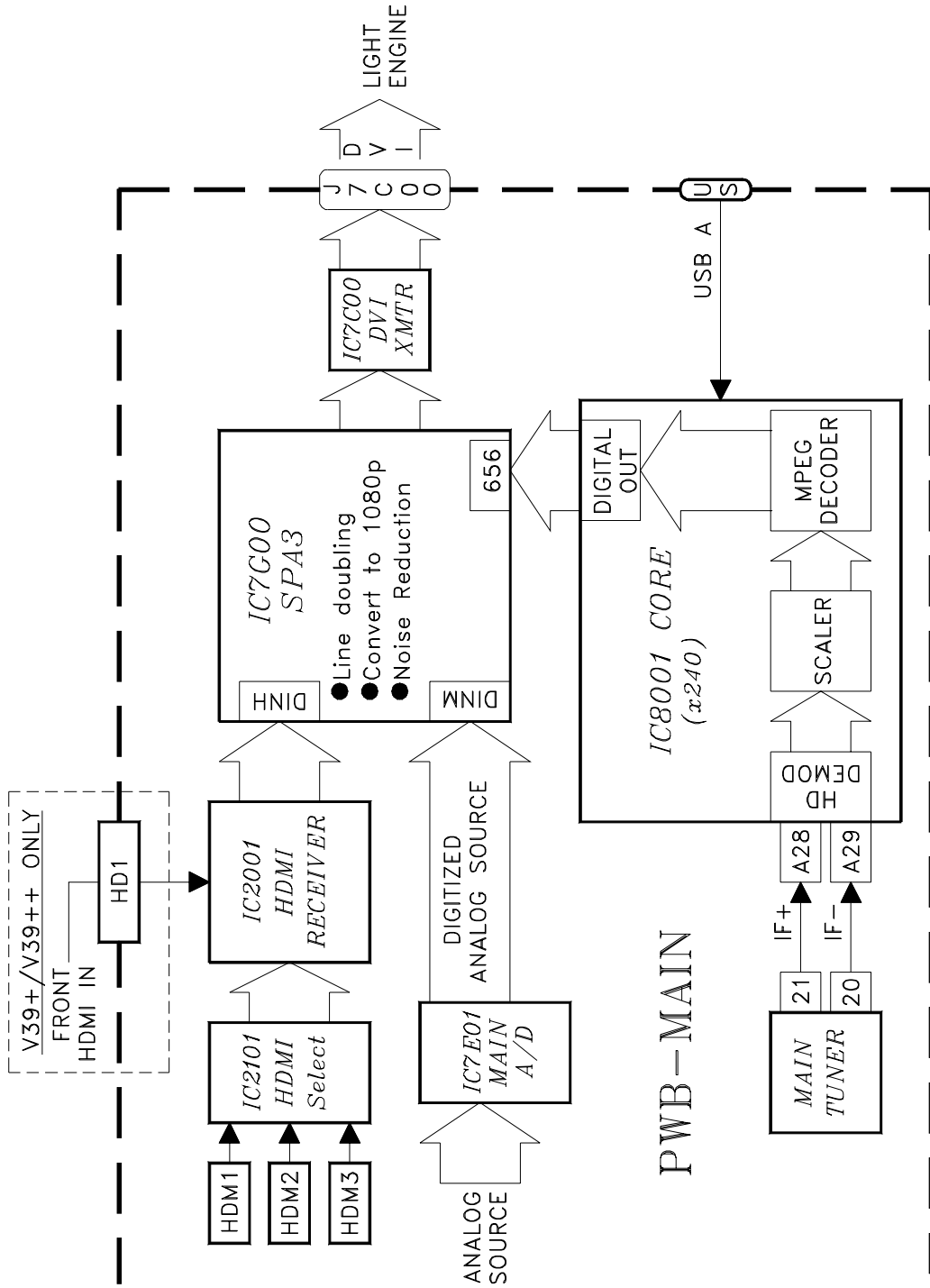




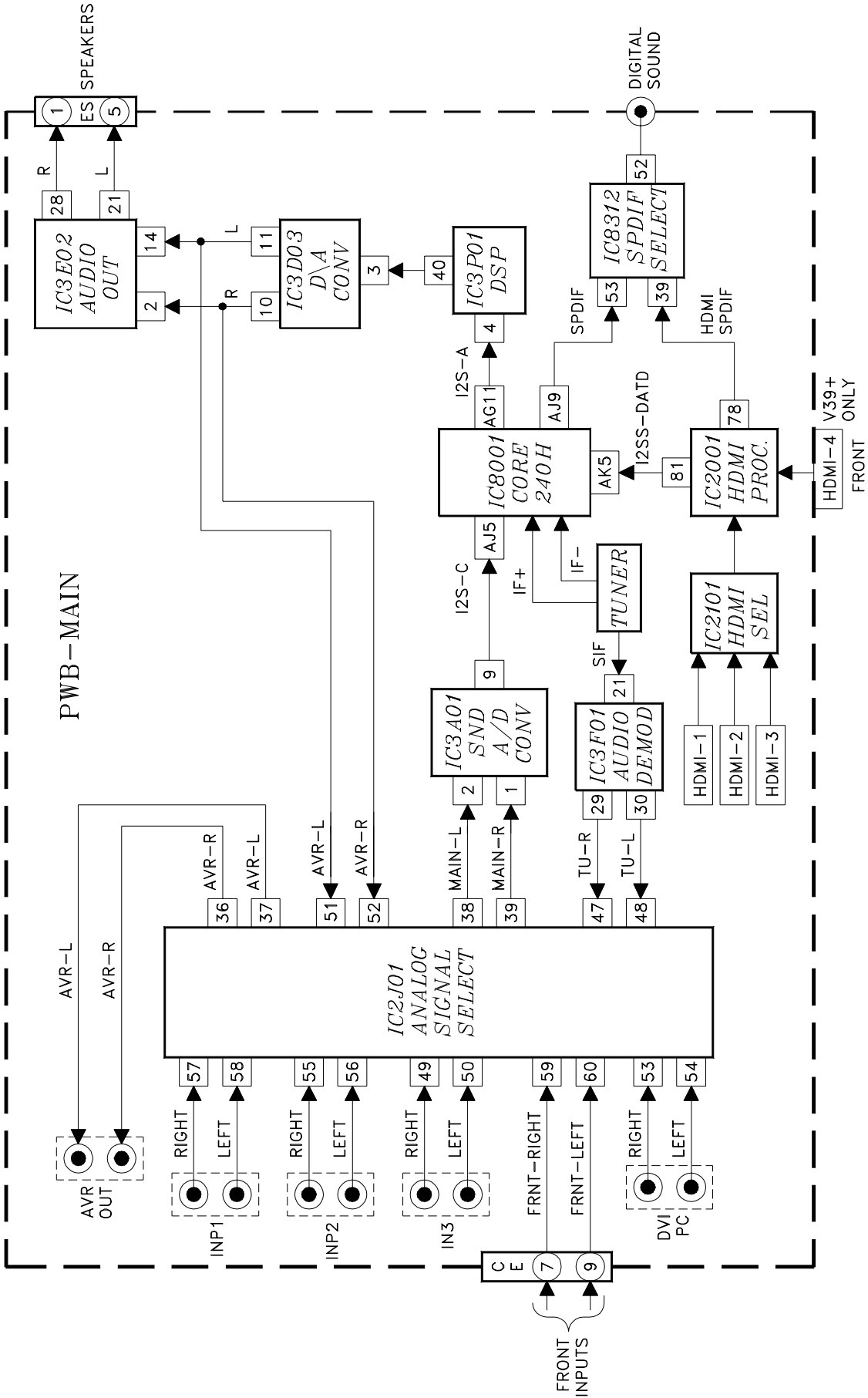
DC/DC Supplies



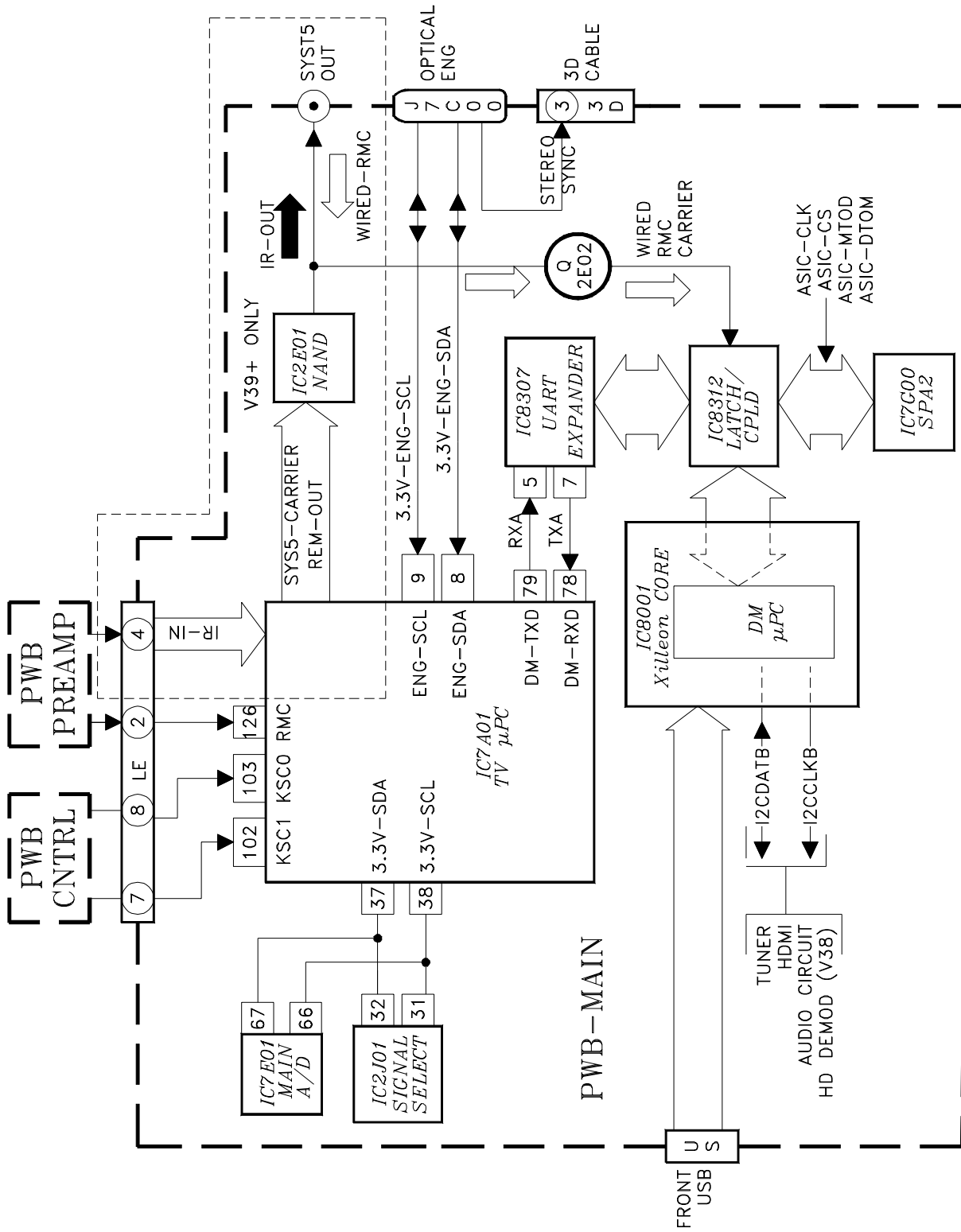
ANALOG VIDEO SIGNAL PATH



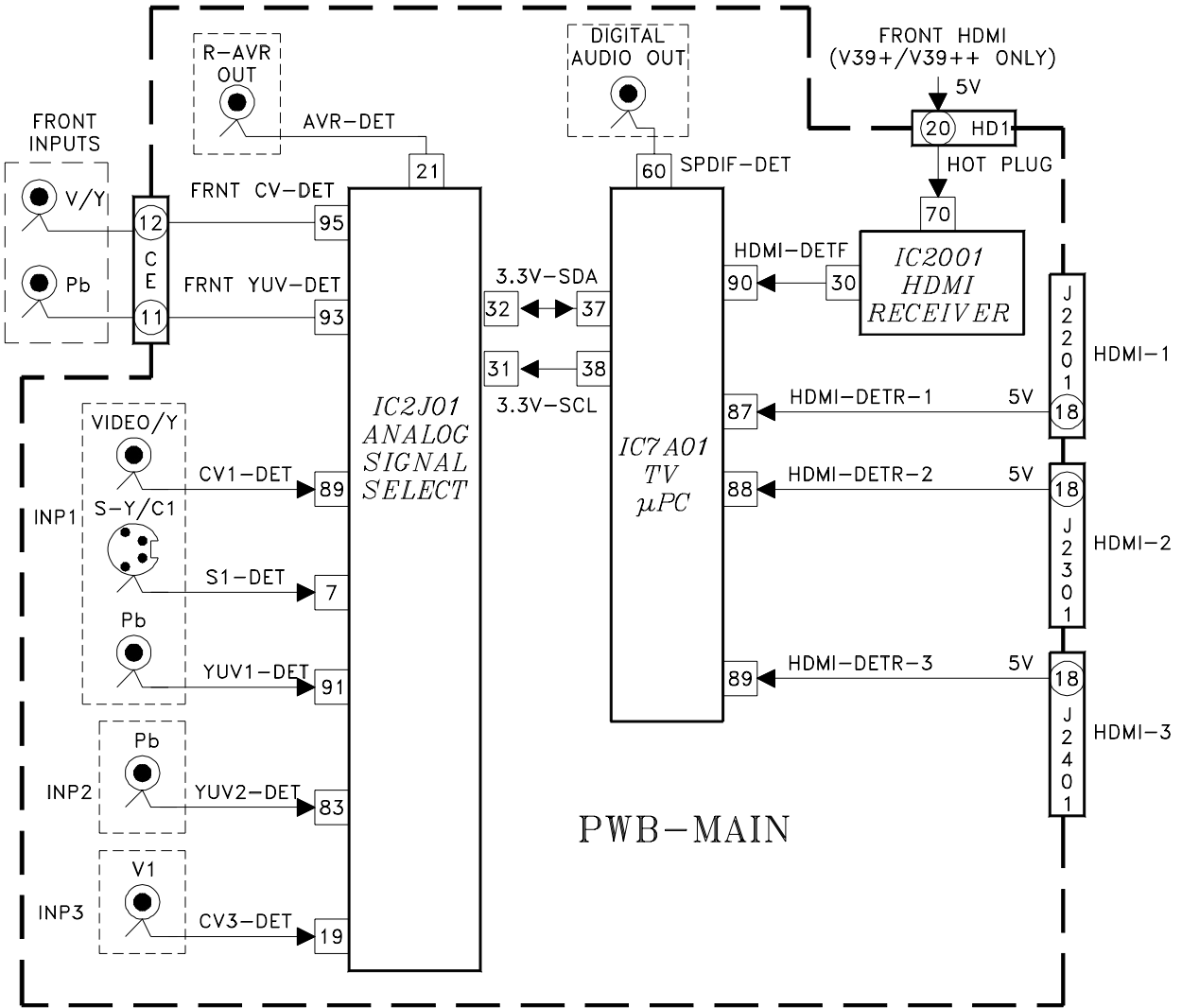
DIGITAL VIDEO SIGNAL PATH



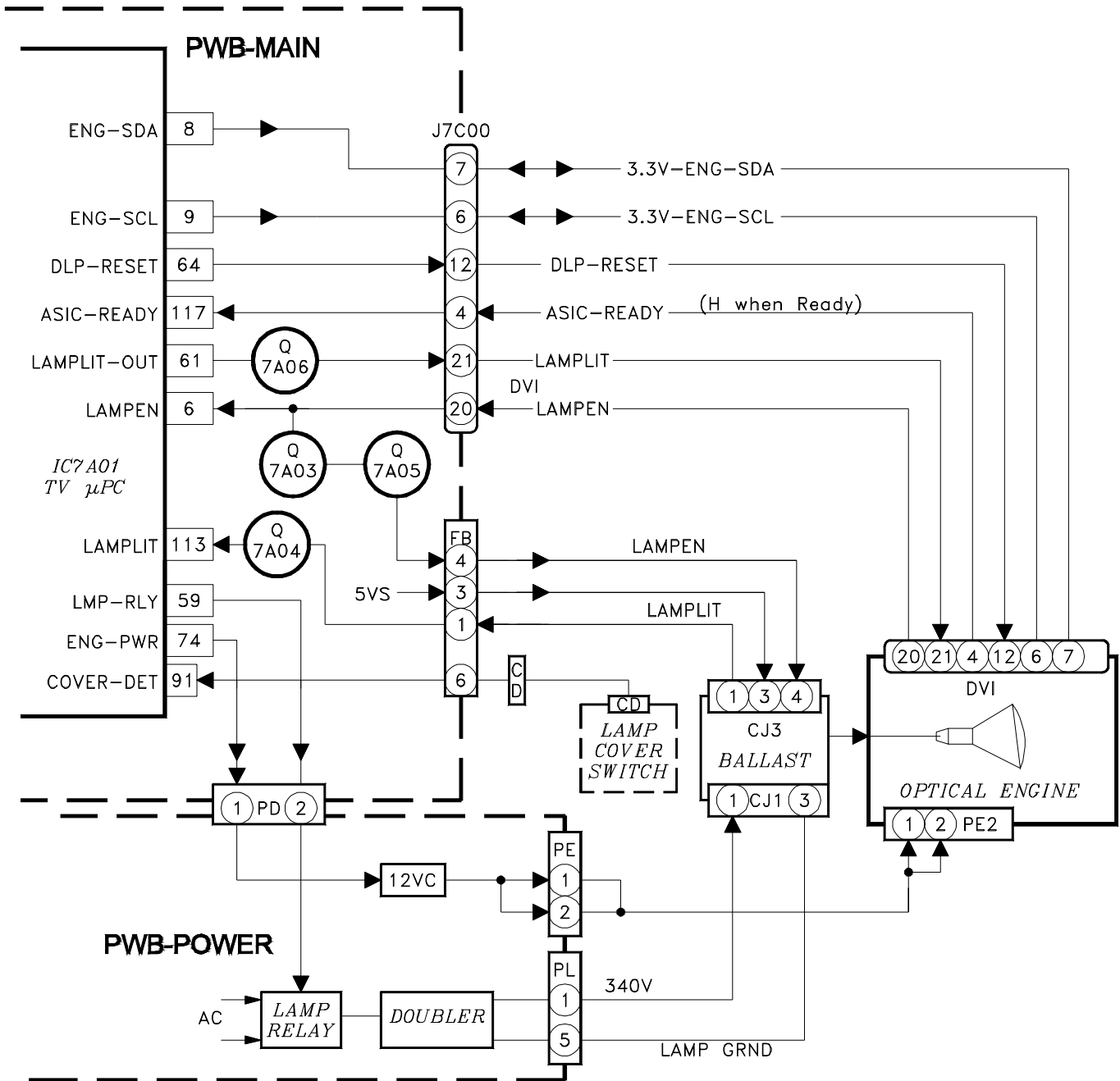
SOUND SIGNAL PATH



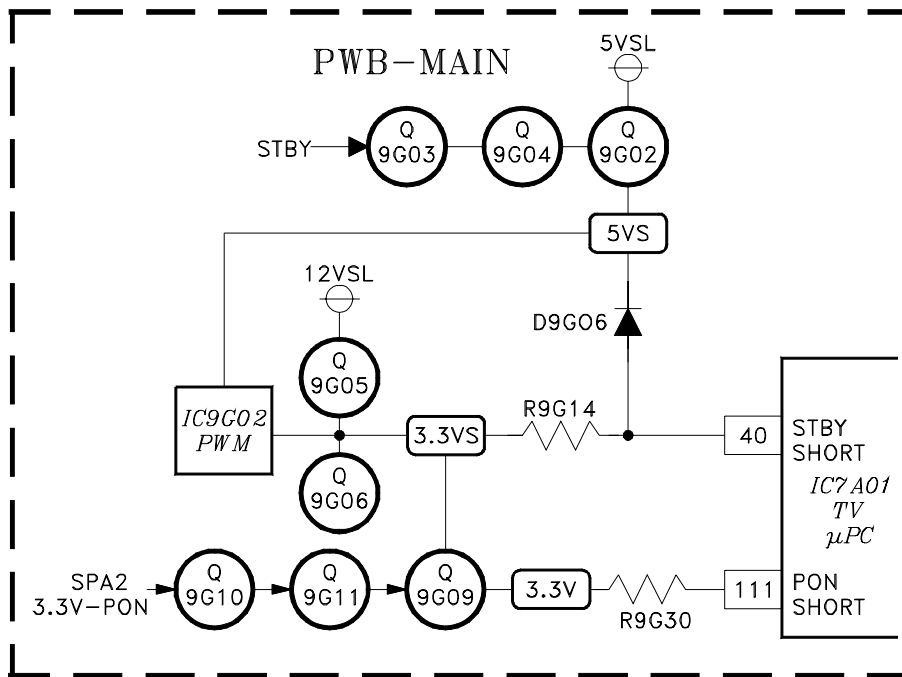
OVERALL CONTROL CIRCUIT



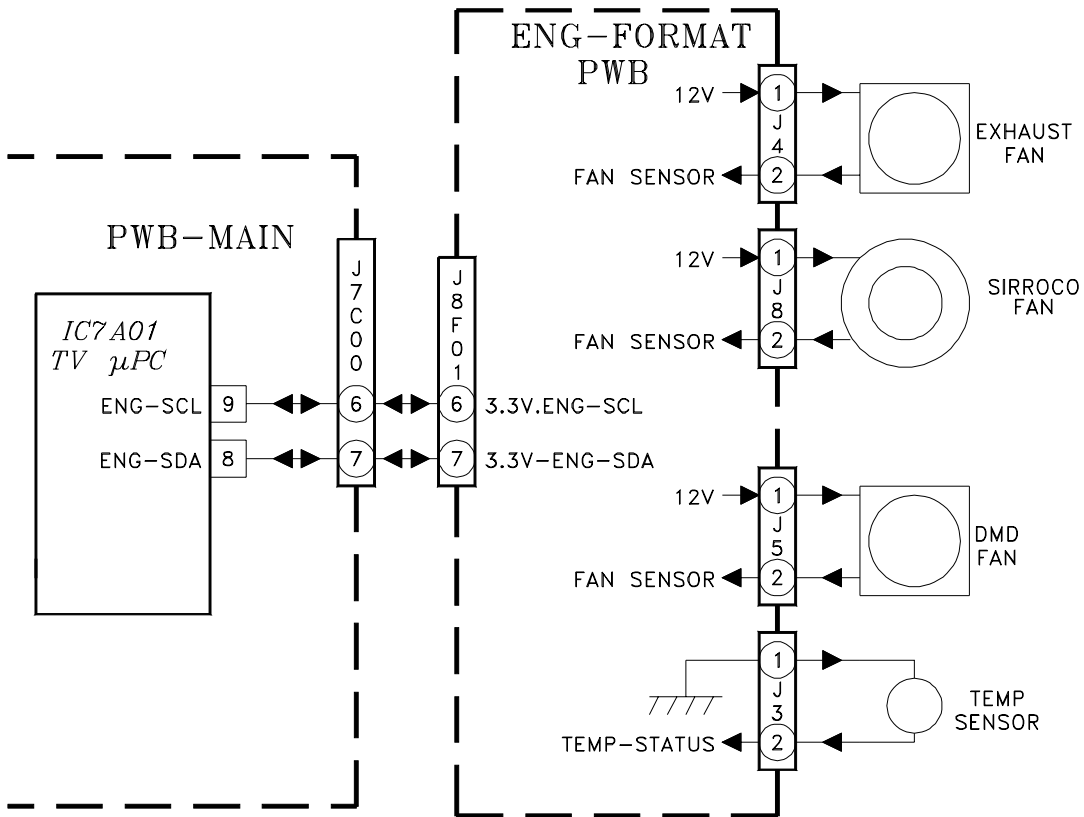
INPUT/OUTPUT AUTO DETECT



LAMP CONTROL CIRCUITRY

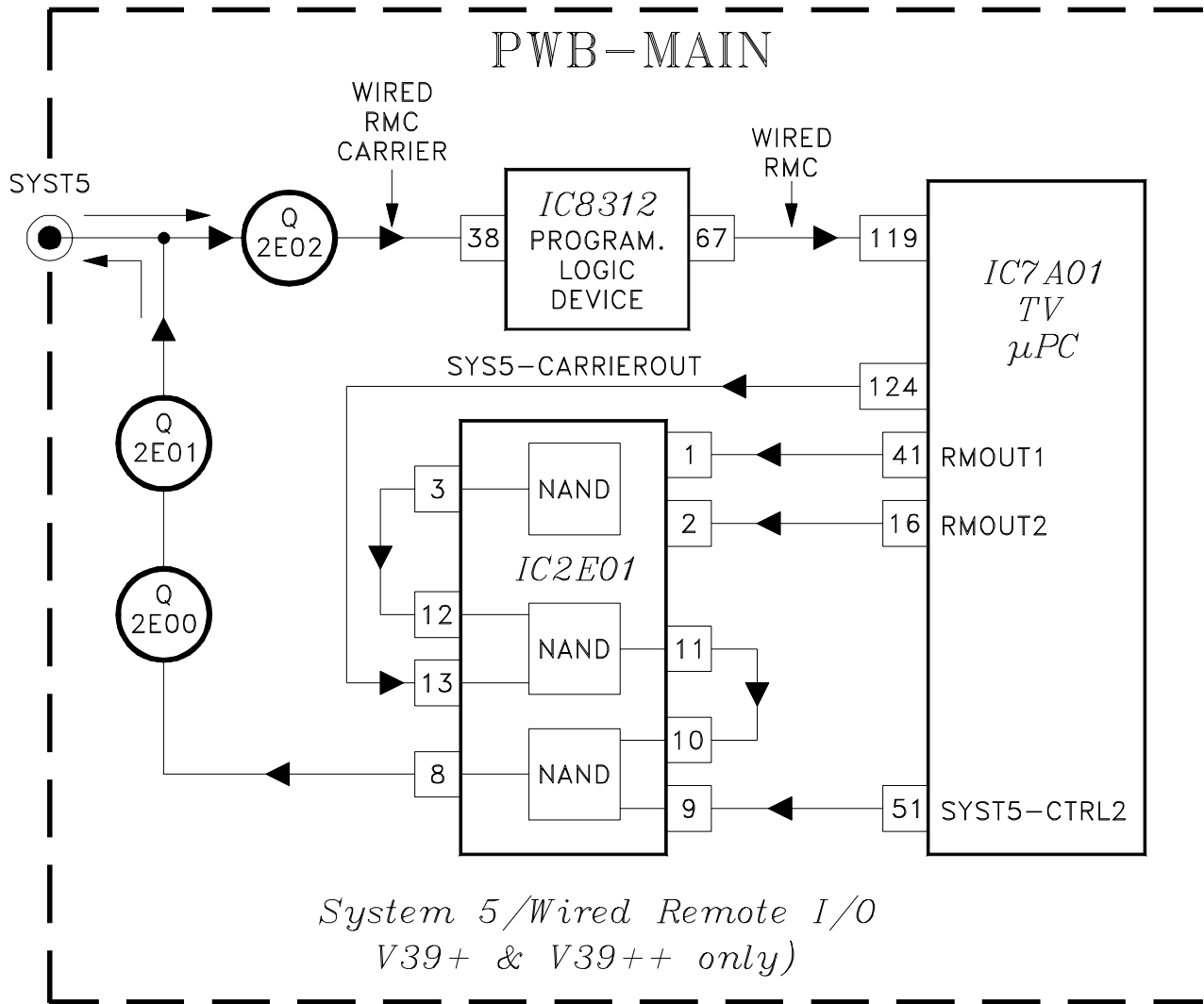


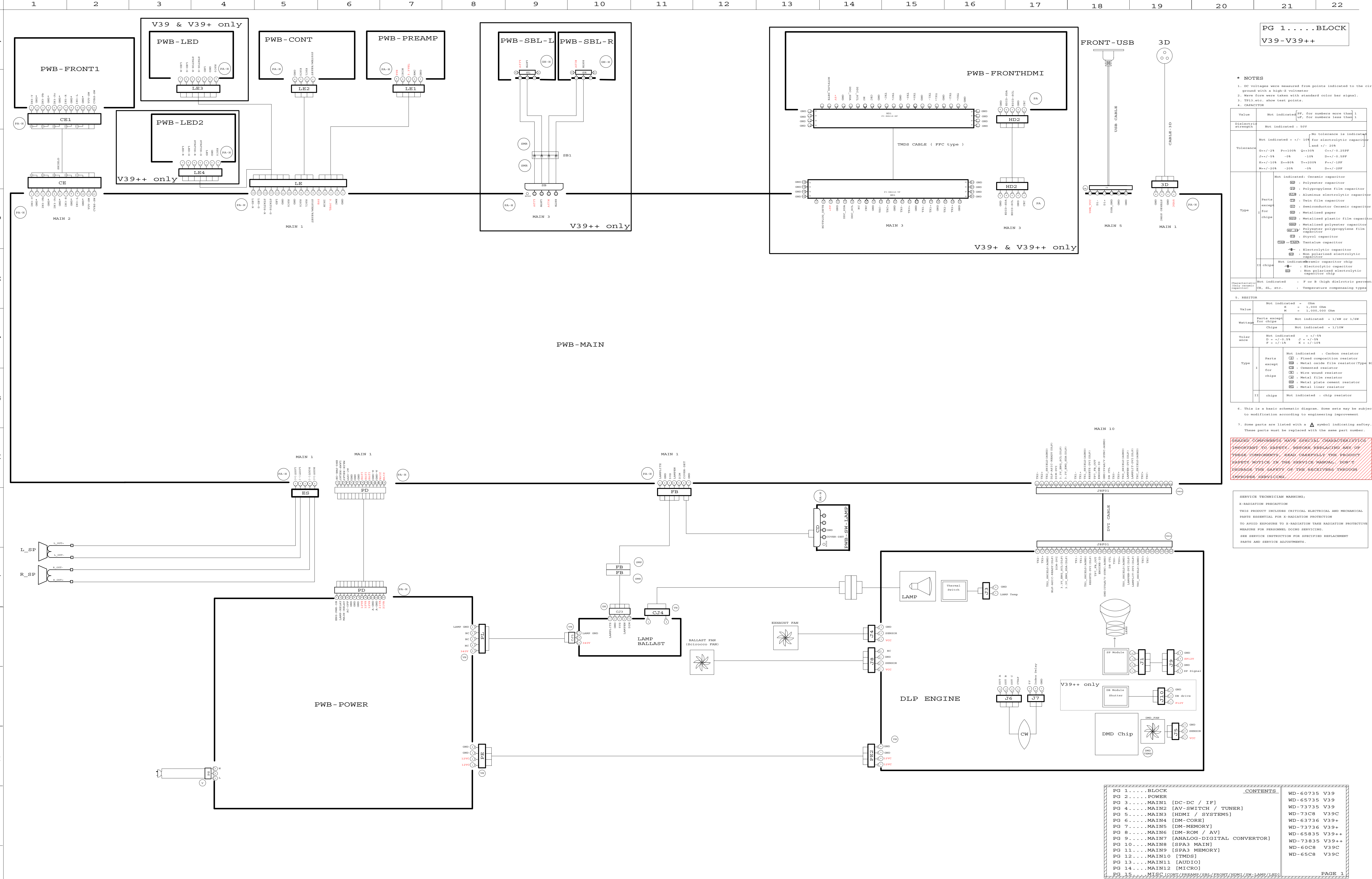
SHORT DETECT CIRCUITRY



ENGINE PROTECT CIRCUITRY

System 5 / Wired Remote I/O





- * NOTES
- DC voltages were measured from points indicated to the circuit ground with a high- Ω voltmeter.
 - Wave form were taken with standard color bar signal.
 - TP13, etc. show test points.
 - CONTRACTOR

Value	Not indicated	UF, for numbers more than 1	UF, for numbers less than 1
Dielectric strength	Not indicated	50V	
Tolerance	Not indicated	No tolerance is indicated	
		Land +/- 20%	
		Land +/- 20%	
		G=+/-2%	P=+10%
		Q=+30%	C=+/-0.25PF
		J=+/-3%	K=+/-3%
		L=+/-3%	D=+/-0.25PF
		M=+/-20%	-20%
		-0%	D=+/-2PF

Type	Not indicated	Ceramic capacitor
Parts except for chips		<ul style="list-style-type: none"> □ : Polyester capacitor □ : Polypropylene film capacitor □ : Aluminum electrolytic capacitor □ : Twin film capacitor □ : Semiconductor ceramic capacitor □ : Metallized paper □ : Metallized plastic film capacitor □ : Polymer polyester capacitor □ : Polymer polypropylene film capacitor □ : Styrol capacitor □ : Tantalum capacitor
II chips		<ul style="list-style-type: none"> □ : Electrolytic capacitor □ : Non polarized electrolytic capacitor

Characteristic	Not indicated	F or B (high dielectric percentage)
Only ceramic capacitor		
capacitor		CM, SL, etc.
		Temperature compensating type

5. RESISTOR

Value	Not indicated	= Ohm
		K = 1,000 Ohm
		M = 1,000,000 Ohm

Wattage	Parts except for chips	Not indicated	= 1/4W or 1/2W
	Chips	Not indicated	= 1/10W

Tolerance	Not indicated	= +/-5%
		D = +/-0.5%
		J = +/-5%
		F = +/-1%
		K = +/-10%

Type	Not indicated	Carbon resistor
Parts except for chips		<ul style="list-style-type: none"> □ : Fixed composition resistor □ : Cemented resistor □ : Wire wound resistor □ : Metal film resistor □ : Metal plate cement resistor □ : Metal liner resistor
II chips		chip resistor

6. This is a basic schematic diagram. Some parts may be subject to modification according to engineering improvement.

7. Some parts are listed with a Δ symbol indicating safety. These parts must be replaced with the same part number.

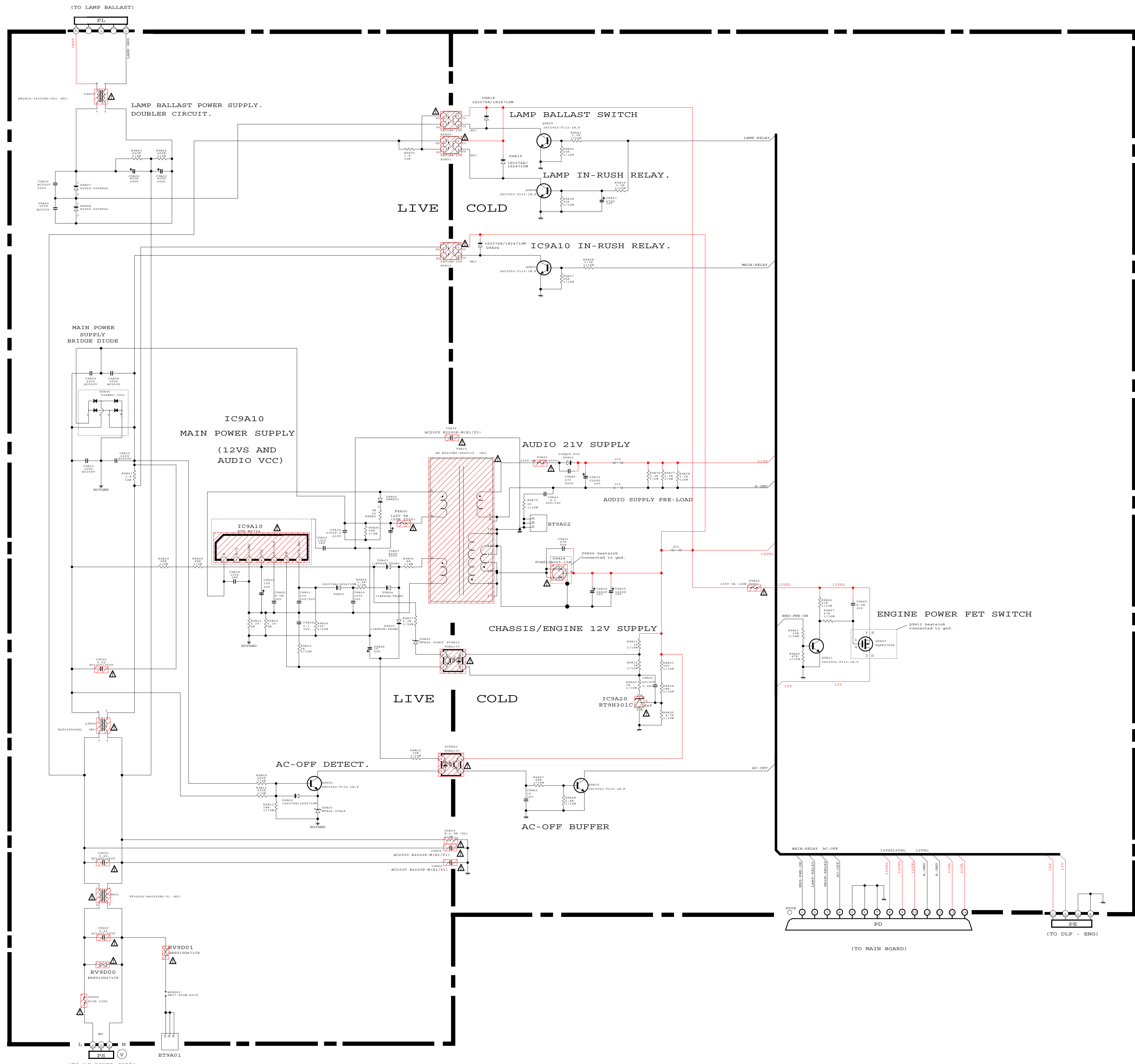
SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVERS THROUGH IMPROPER SERVICING.

SERVICE TECHNICIAN WARNING;
X-RADIATION PRECAUTION
THIS PRODUCT INCLUDES CRITICAL ELECTRICAL AND MECHANICAL PARTS ESSENTIAL FOR X-RADIATION PROTECTION TO AVOID EXPOSURE TO X-RADIATION TAKE RADIATION PROTECTIVE MEASURE FOR PERSONNEL DOING SERVICING. SEE SERVICE INSTRUCTION FOR SPECIFIED REPLACEMENT PARTS AND SERVICE ADJUSTMENTS.

PG 1...BLOCK	CONTENTS	WD-60735 V39
PG 2...POWER		WD-65735 V39
PG 3...MAIN1 [DC-DC / IF]		WD-73735 V39
PG 4...MAIN2 [AV-SWITCH / TUNER]		WD-73735 V39
PG 5...MAIN3 [HDMI / SYSTEMS]		WD-73735 V39
PG 6...MAIN4 [DM-CORE]		WD-63736 V39+
PG 7...MAIN5 [DM-MEMORY]		WD-73736 V39+
PG 8...MAIN6 [DM-ROM / AV]		WD-65835 V39++
PG 9...MAIN7 [ANALOG-DIGITAL CONVERTOR]		WD-73835 V39++
PG 10...MAIN8 [SPA3 MAIN]		WD-60C8 V39C
PG 11...MAIN9 [SPA3 MEMORY]		WD-65C8 V39C
PG 12...MAIN10 [TMDS]		
PG 13...MAIN11 [AUDIO]		
PG 14...MAIN12 [MICRO]		
PG 15...MISC [CONT/PREAMP/SBL/FRONT/HDMI/SN-LAMP/LED]		

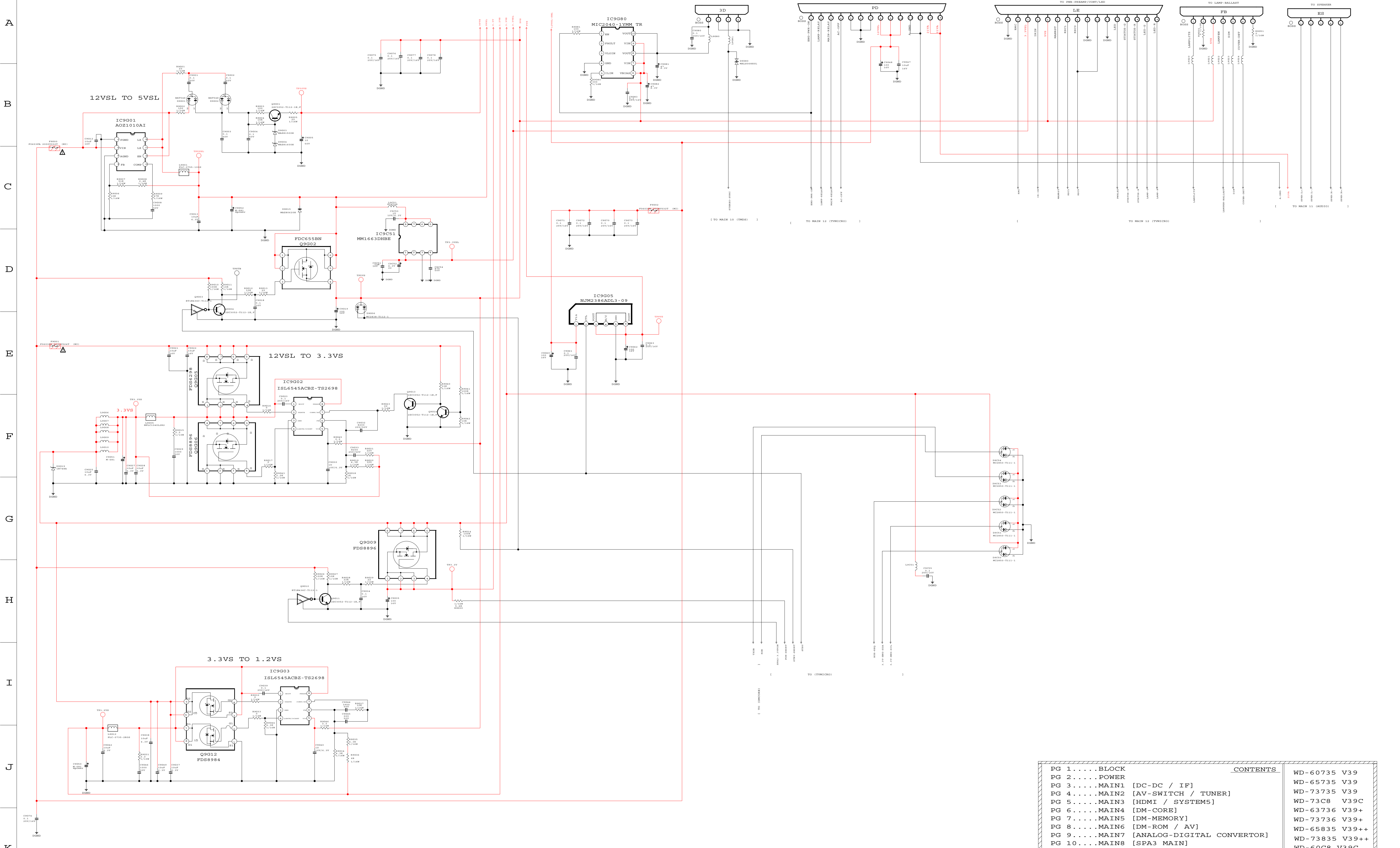
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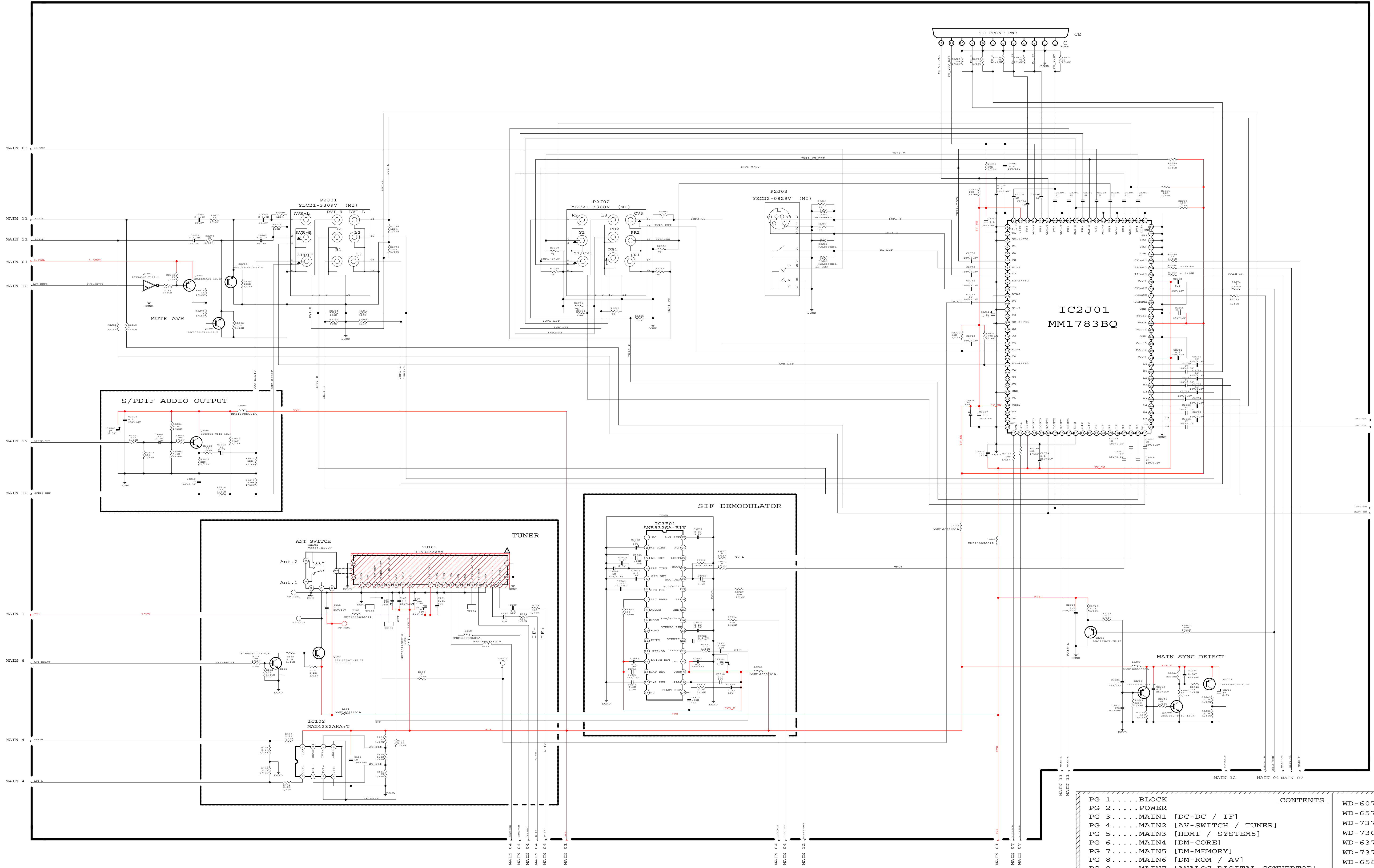
CONTENTS	
PG 1BLOCK	WD-60735 V39
PG 2POWER	WD-65735 V39
PG 3MAIN1 [DC-DC / IF]	WD-73735 V39
PG 4MAIN2 [AV-SWITCH / TUNER]	WD-73C8 V39C
PG 5MAIN3 [HDMI / SYSTEM5]	WD-63736 V39+
PG 6MAIN4 [DM-CORE]	WD-73736 V39+
PG 7MAIN5 [DM-MEMORY]	WD-65835 V39++
PG 8MAIN6 [DM-ROM / AV]	WD-73835 V39++
PG 9MAIN7 [ANALOG-DIGITAL CONVERTOR]	WD-60C8 V39C
PG 10MAIN8 [SPA3 MAIN]	WD-65C8 V39C
PG 11MAIN9 [SPA3 MEMORY]	
PG 12MAIN10 [TMDS]	
PG 13MAIN11 [AUDIO]	
PG 14MAIN12 [MICRO]	
PG 15MISC [CONT/FREAME/SBL/FRONT/HDMI/SW-LAMP/LED]	

PG 3 MAIN1 [DC-DC / IF]



CONTENTS	
PG 1 BLOCK	WD-60735 V39
PG 2 POWER	WD-65735 V39
PG 3 MAIN1 [DC-DC / IF]	WD-73735 V39
PG 4 MAIN2 [AV-SWITCH / TUNER]	WD-73C8 V39C
PG 5 MAIN3 [HDMI / SYSTEM5]	WD-63736 V39+
PG 6 MAIN4 [DM-CORE]	WD-73736 V39+
PG 7 MAIN5 [DM-MEMORY]	WD-65835 V39++
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PG 9 MAIN7 [ANALOG-DIGITAL CONVERTOR]	WD-60C8 V39C
PG 10 MAIN8 [SPA3 MAIN]	WD-65C8 V39C
PG 11 MAIN9 [SPA3 MEMORY]	
PG 12 MAIN10 [TMDS]	
PG 13 MAIN11 [AUDIO]	
PG 14 MAIN12 [MICRO]	
PG 15 MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]	

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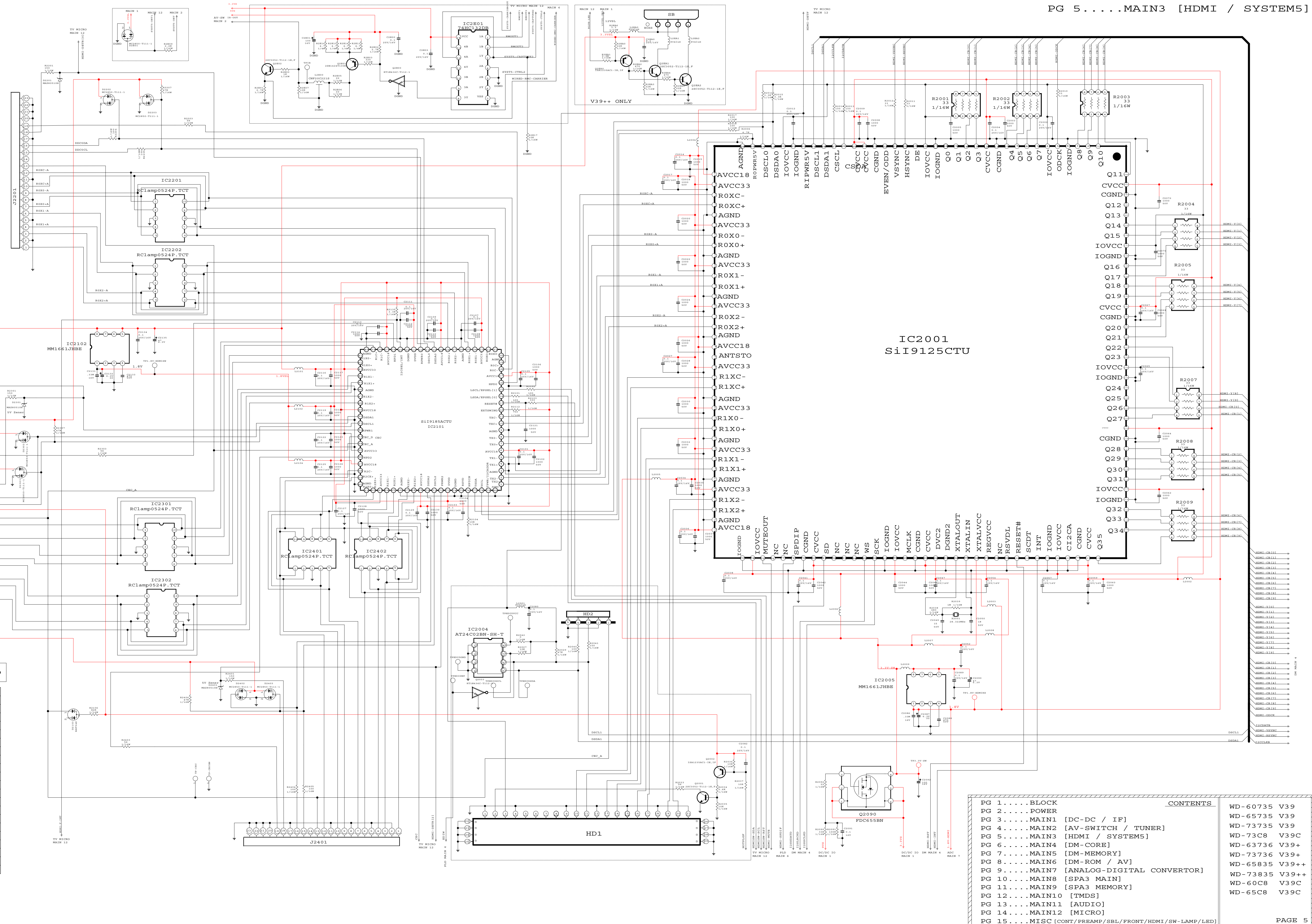
CONTENTS	
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PG 11....MAIN9 [SPA3 MEMORY]	
PG 12....MAIN10 [TMDS]	
PG 13....MAIN11 [AUDIO]	
PG 14....MAIN12 [MICRO]	
PG 15....MISC (CONT/PRAMP/SBL/FRONT/HDMI/SW-LAMP/LED)	

PIN	Signal Assignment
1	T.M.D.S. Data 2+ Shield
2	T.M.D.S. Data 2 Shield
3	T.M.D.S. Data 2-
4	T.M.D.S. Data 1+ Shield
5	T.M.D.S. Data 1 Shield
6	T.M.D.S. Data 1-
7	T.M.D.S. Data 0+ Shield
8	T.M.D.S. Data 0 Shield
9	T.M.D.S. Data 0-
10	T.M.D.S. Clock+
11	T.M.D.S. Clock Shield
12	T.M.D.S. Clock-
13	CSC
14	Reserve
15	DDC Clock
16	DDC Data
17	Ground Return for +5V.
18	+5V Power
19	Hot Plug Detect
Shell FG	
(20)	Location Post (GND)
(21)	Location Post (GND)
(22)	Location Post (GND)
(23)	Location Post (GND)

PIN	Signal Assignment
21	T.M.D.S. Data 2+ Shield
20	T.M.D.S. Data 2-
19	T.M.D.S. Data 2- Shield
18	T.M.D.S. Data 1+ Shield
17	T.M.D.S. Data 1-
16	T.M.D.S. Data 1- Shield
15	T.M.D.S. Data 0+ Shield
14	T.M.D.S. Data 0-
13	T.M.D.S. Clock+
12	T.M.D.S. Clock Shield
11	T.M.D.S. Clock-
10	T.M.D.S. Clock-
9	GND
8	NC
7	NC
6	NC
5	NC
4	+5V Return
3	+5V
2	Hot Plug Detect
1	GND

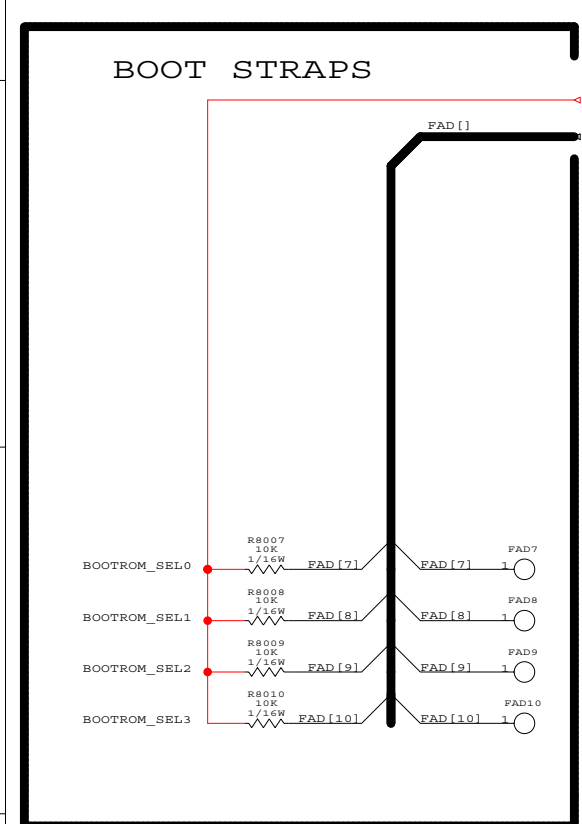
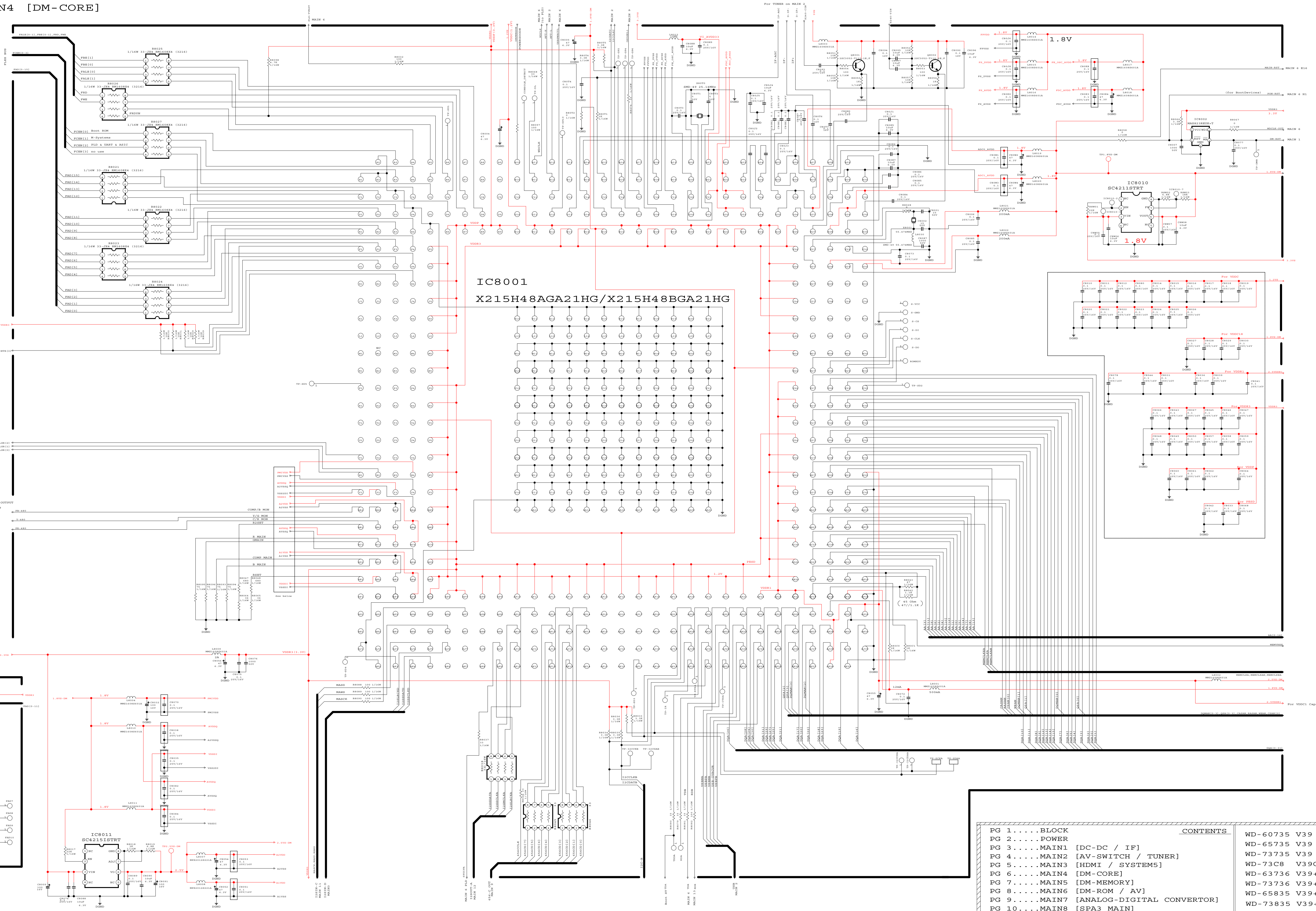
PIN	Signal Assignment
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20	T.M.D.S. Data 2-
19	T.M.D.S. Data 2- Shield
18	T.M.D.S. Data 1+ Shield
17	T.M.D.S. Data 1-
16	T.M.D.S. Data 1- Shield
15	T.M.D.S. Data 0+ Shield
14	T.M.D.S. Data 0-
13	T.M.D.S. Clock+
12	T.M.D.S. Clock Shield
11	T.M.D.S. Clock-
10	T.M.D.S. Clock-
9	GND
8	NC
7	NC
6	NC
5	NC
4	+5V Return
3	+5V
2	Hot Plug Detect
1	GND

PIN	Signal Assignment
21	T.M.D.S. Data 2+ Shield
20	T.M.D.S. Data 2-
19	T.M.D.S. Data 2- Shield
18	T.M.D.S. Data 1+ Shield
17	T.M.D.S. Data 1-
16	T.M.D.S. Data 1- Shield
15	T.M.D.S. Data 0+ Shield
14	T.M.D.S. Data 0-
13	T.M.D.S. Clock+
12	T.M.D.S. Clock Shield
11	T.M.D.S. Clock-
10	T.M.D.S. Clock-
9	GND
8	NC
7	NC
6	NC
5	NC
4	+5V Return
3	+5V
2	Hot Plug Detect
1	GND



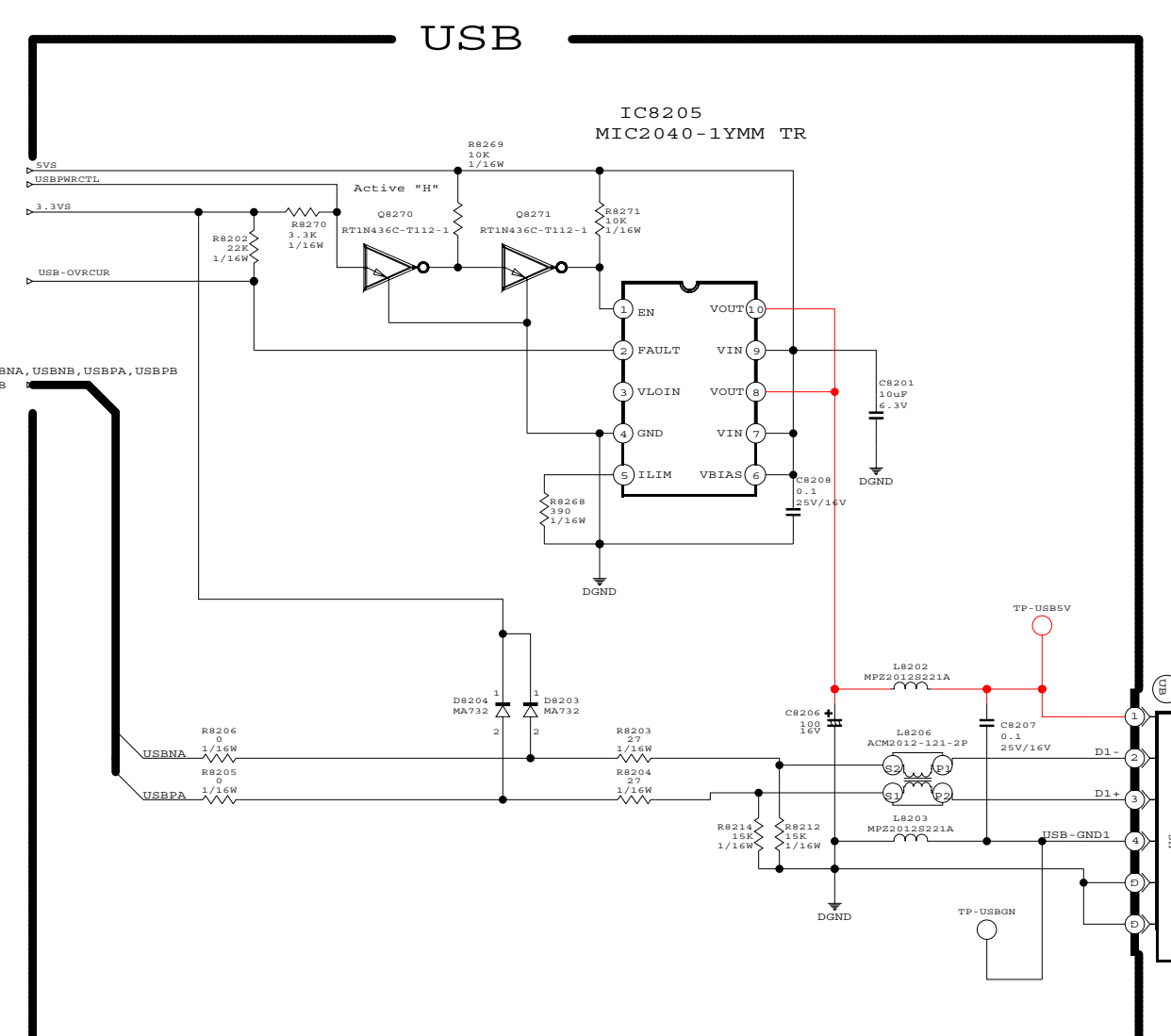
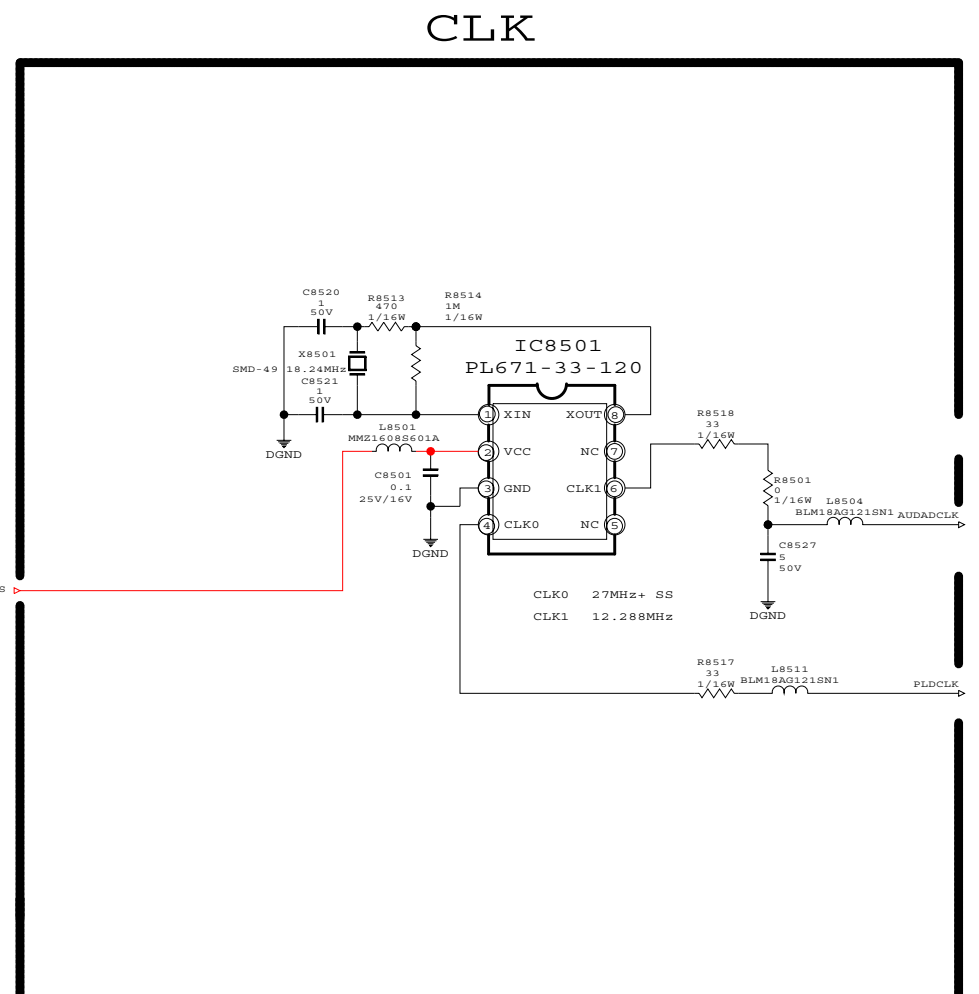
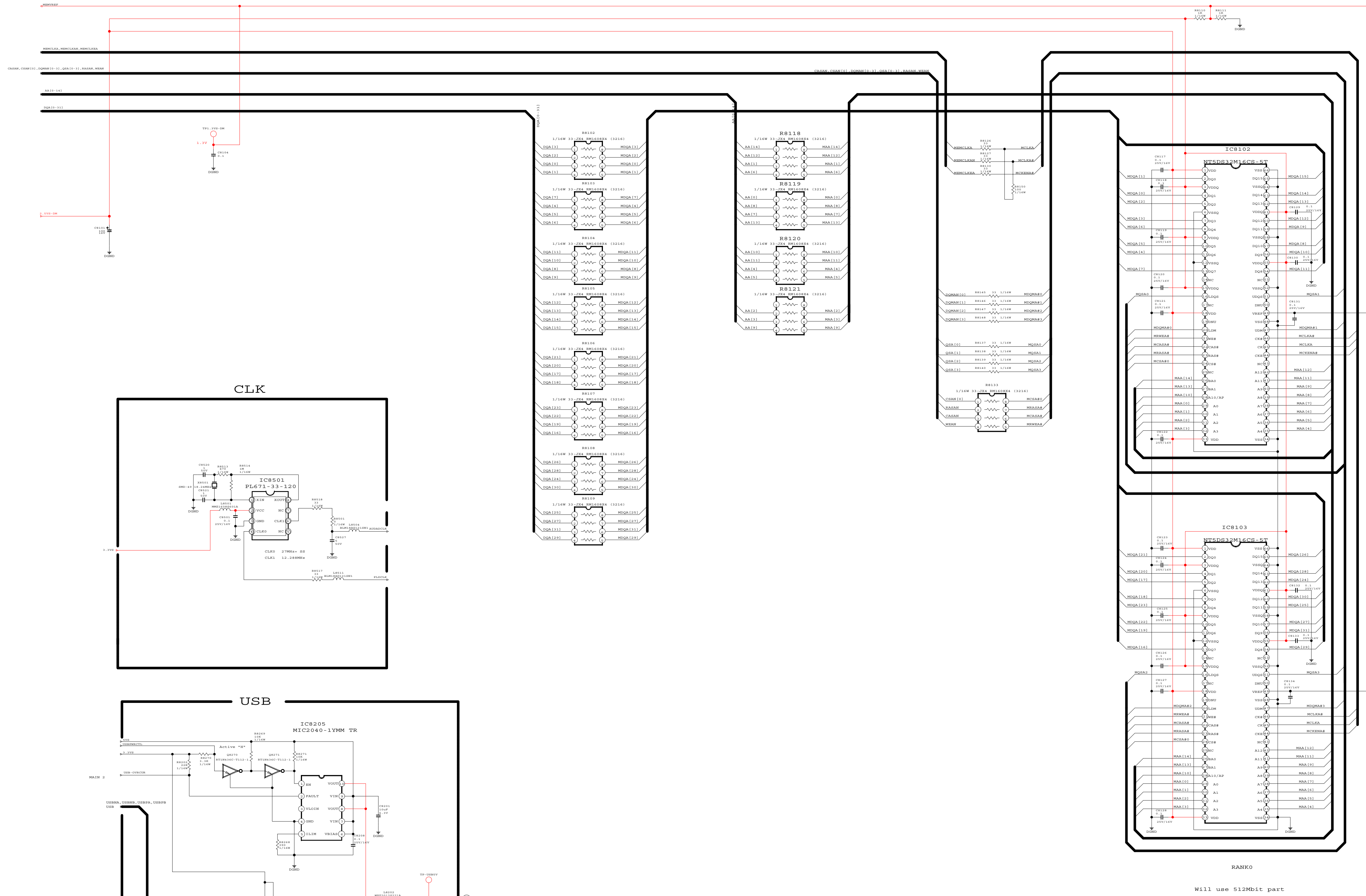
PG	CONTENTS	WD
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PG 4.....	MAIN2 [AV-SWITCH / TUNER]	WD-73C8 V39C
PG 5.....	MAIN3 [HDMI / SYSTEM5]	WD-63736 V39+
PG 6.....	MAIN4 [DM-CORE]	WD-73736 V39+
PG 7.....	MAIN5 [DM-MEMORY]	WD-65835 V39++
PG 8.....	MAIN6 [DM-ROM / AV]	WD-73835 V39++
PG 9.....	MAIN7 [ANALOG-DIGITAL CONVERTOR]	WD-60C8 V39C
PG 10....	MAIN8 [SPA3 MAIN]	WD-65C8 V39C
PG 11....	MAIN9 [SPA3 MEMORY]	
PG 12....	MAIN10 [TMDS]	
PG 13....	MAIN11 [AUDIO]	
PG 14....	MAIN12 [MICRO]	
PG 15....	MISC [CONT / PREAMP / SBL / FRONT / HDMI / SW-LAMP / LED]	

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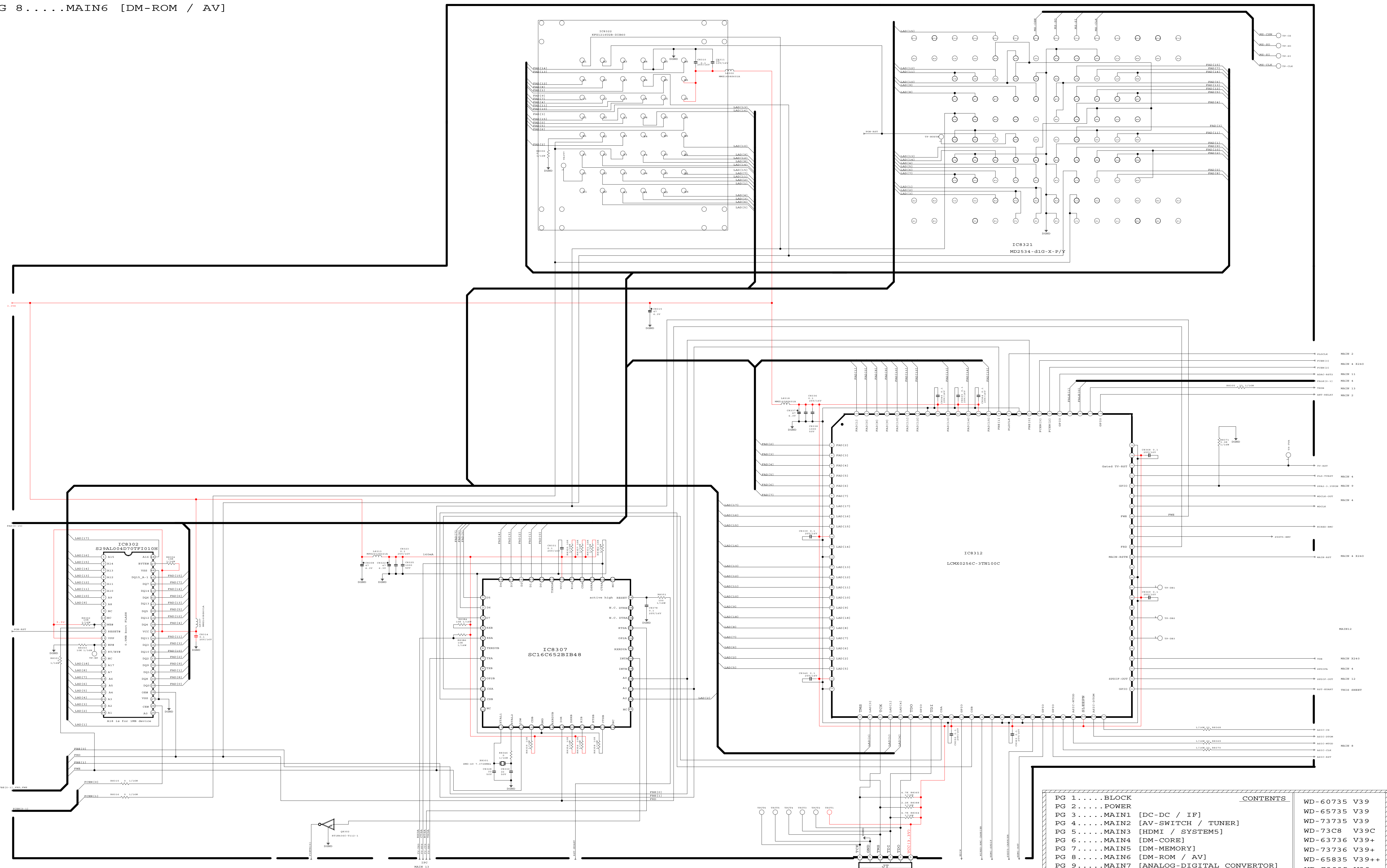
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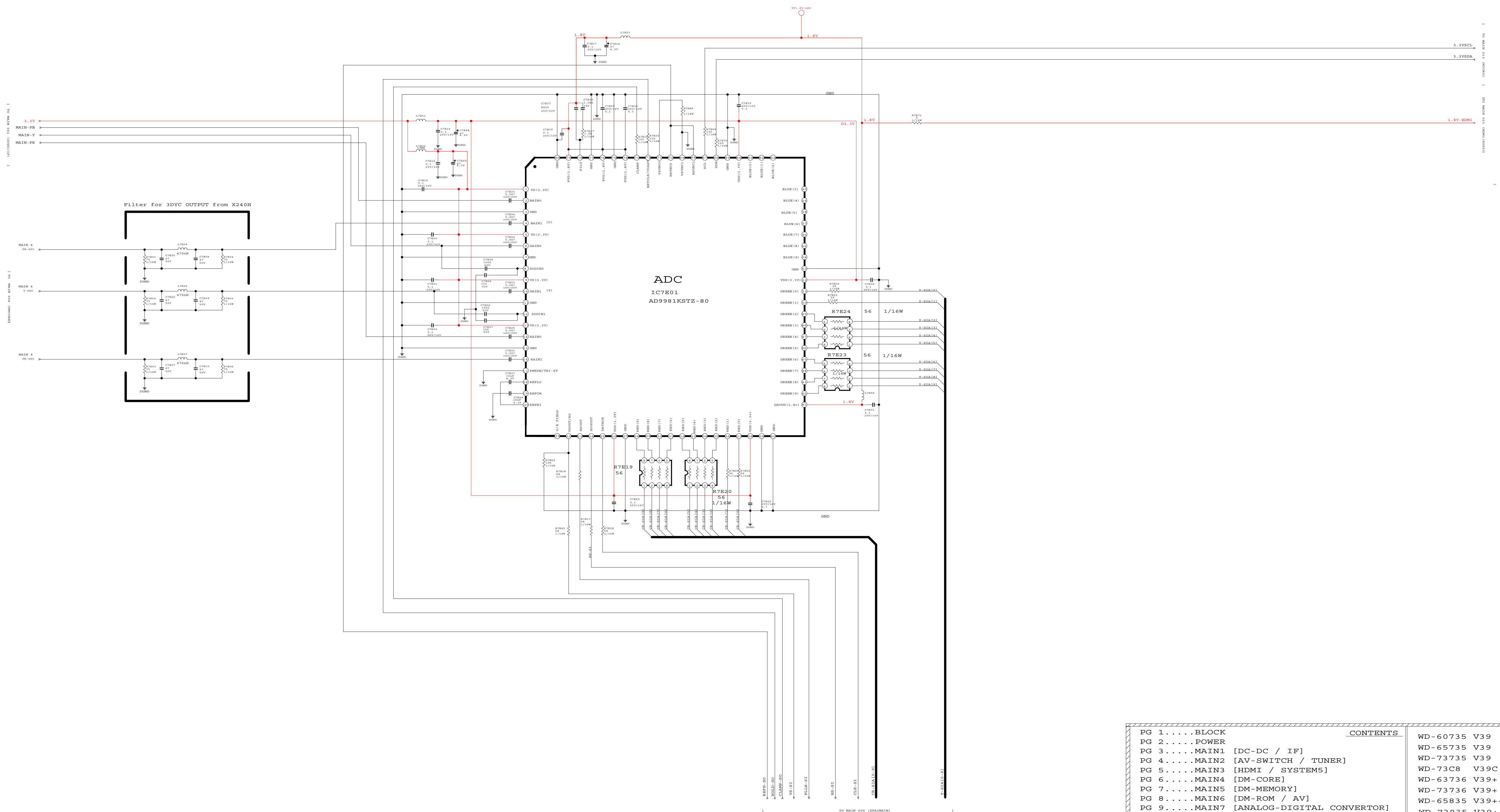


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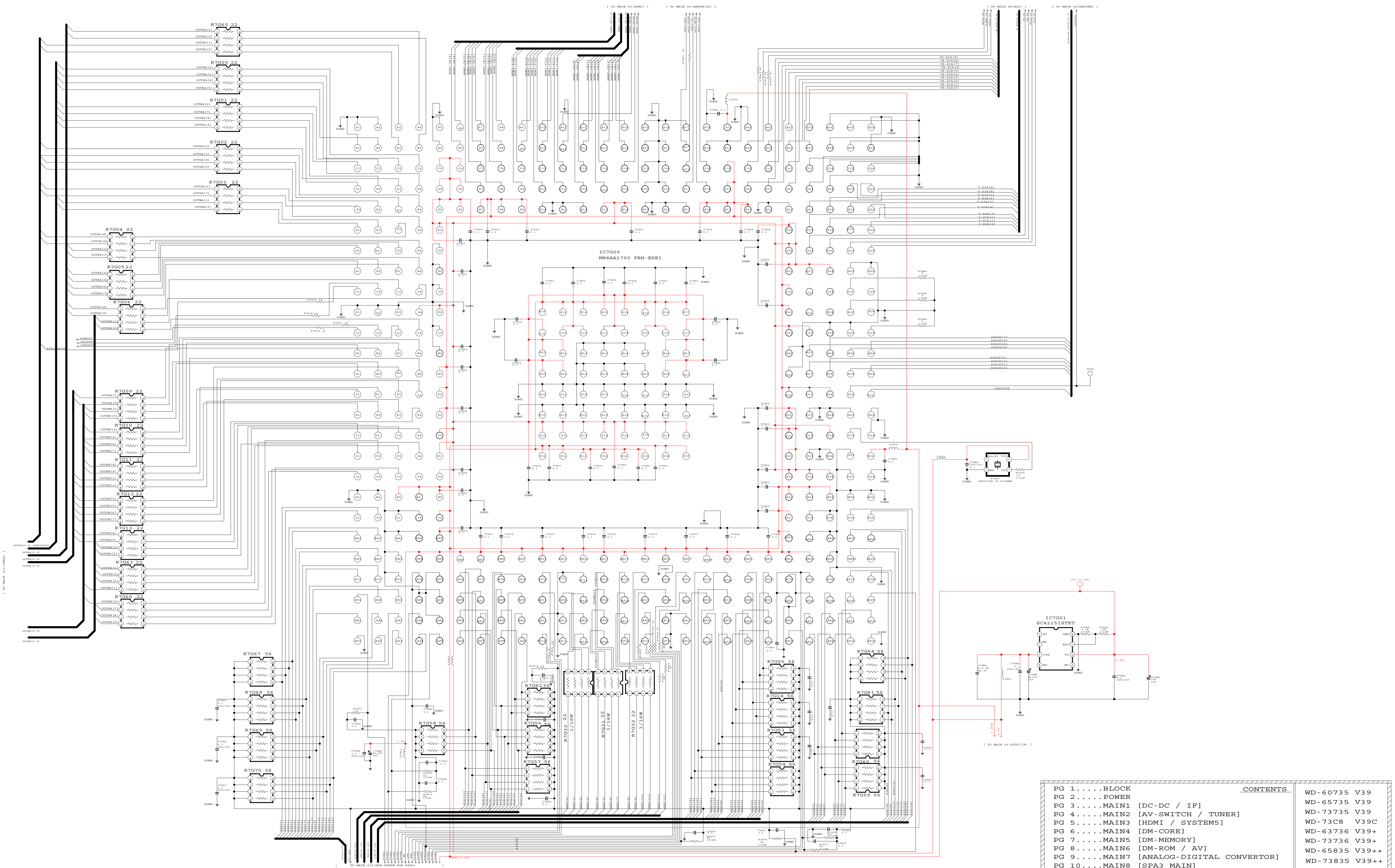


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PG 5.....MAIN3 [HDMI / SYSTEMS]	WD-63736 V39+
PG 6.....MAIN4 [DM-CORE]	WD-73736 V39+
PG 7.....MAIN5 [DM-MEMORY]	WD-65835 V39++
PG 8.....MAIN6 [DM-ROM / AV]	WD-73835 V39++
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]	WD-60C8 V39C
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PG 15.....MISC [CONT/PRAMP/SBI/FRONT/HDMI/SW-LAMP/LED]	



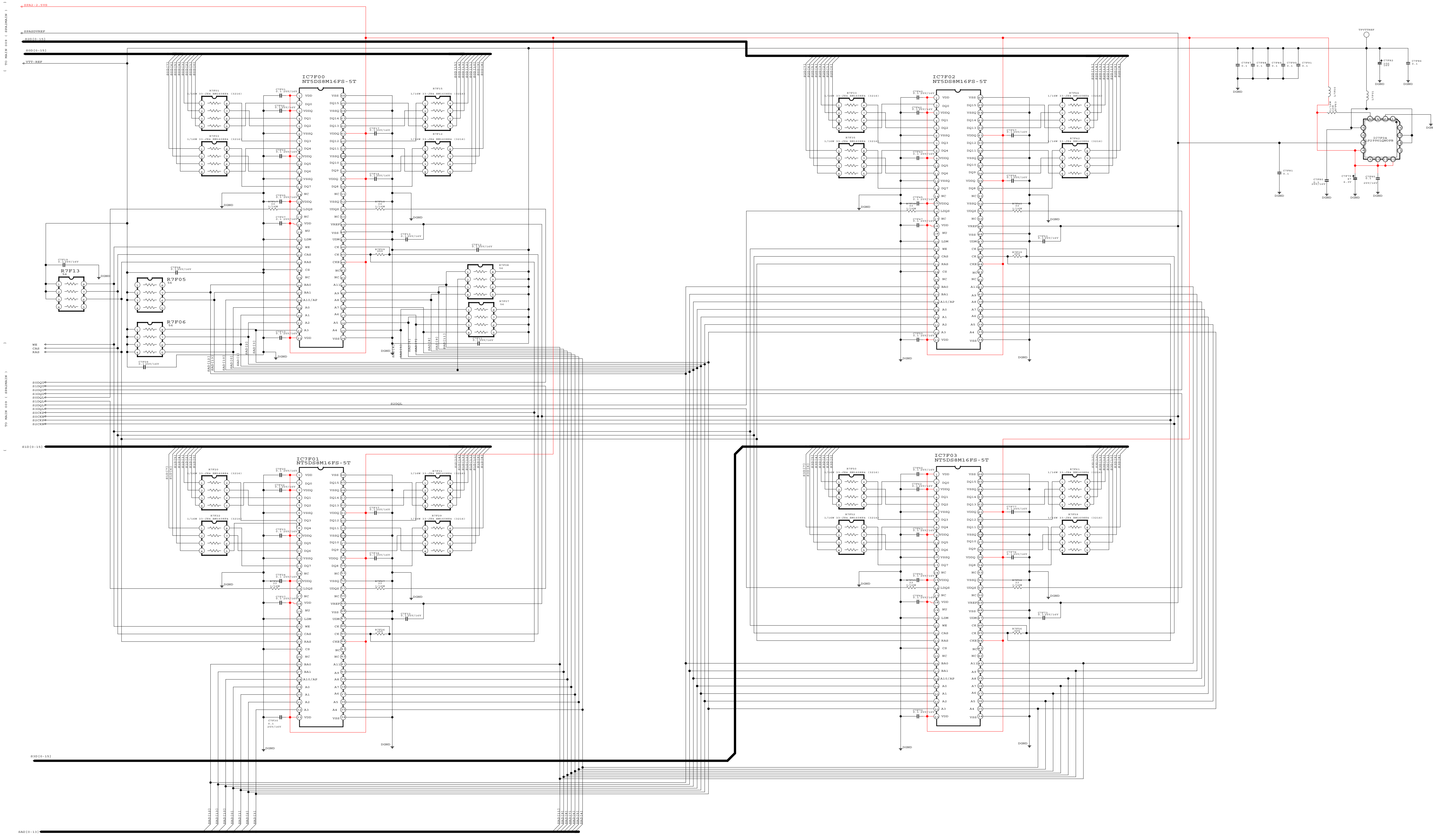
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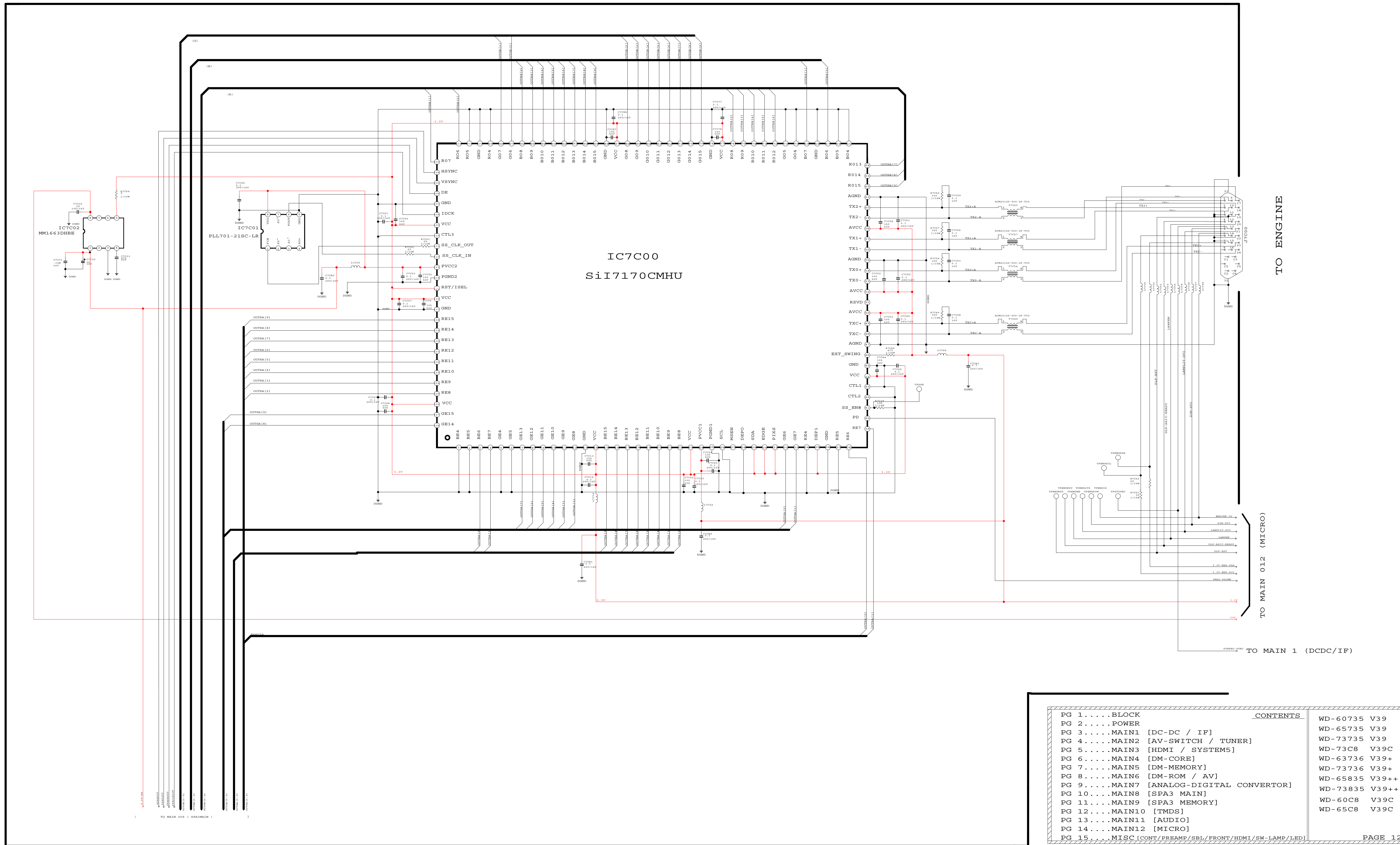


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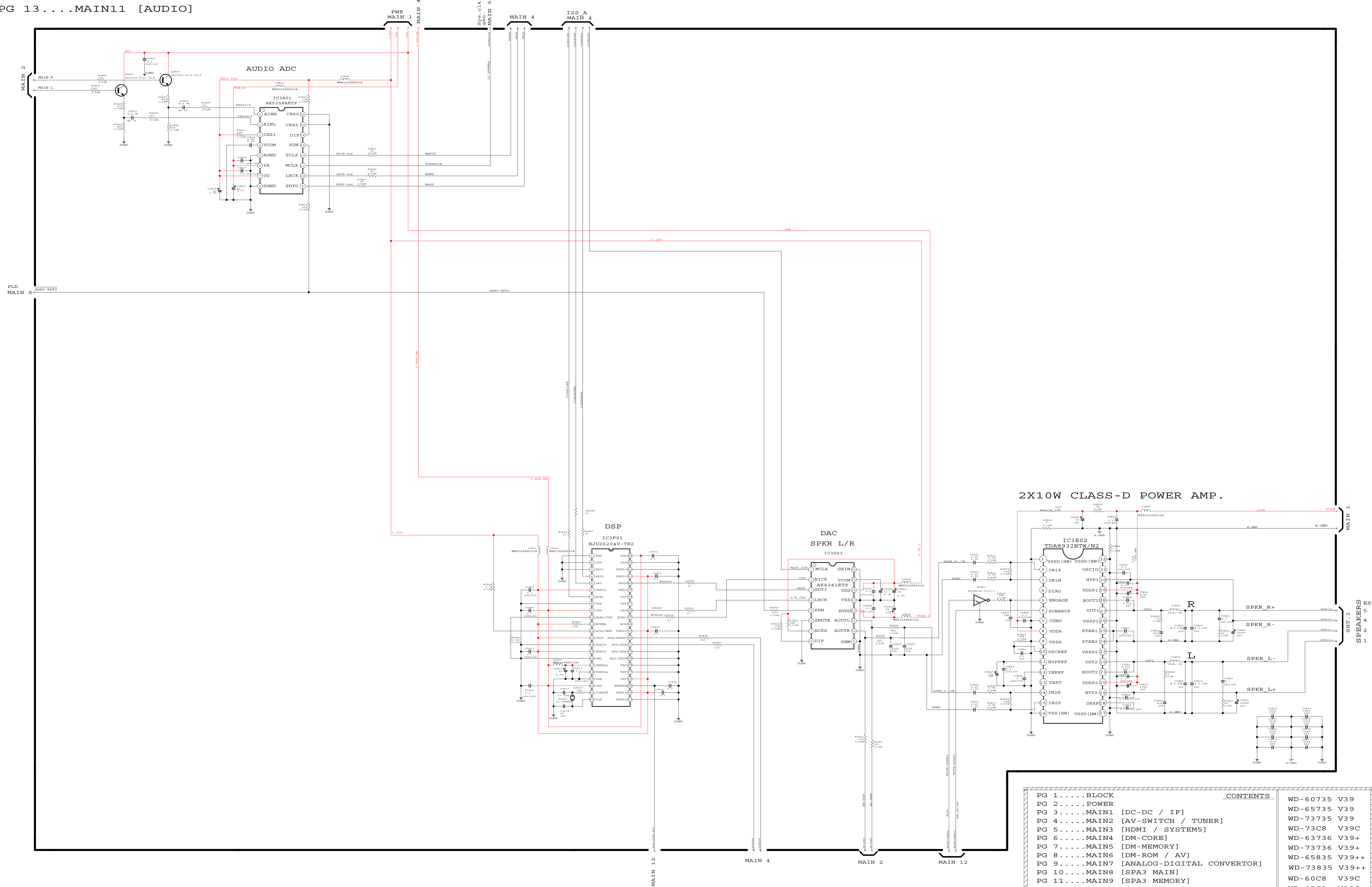


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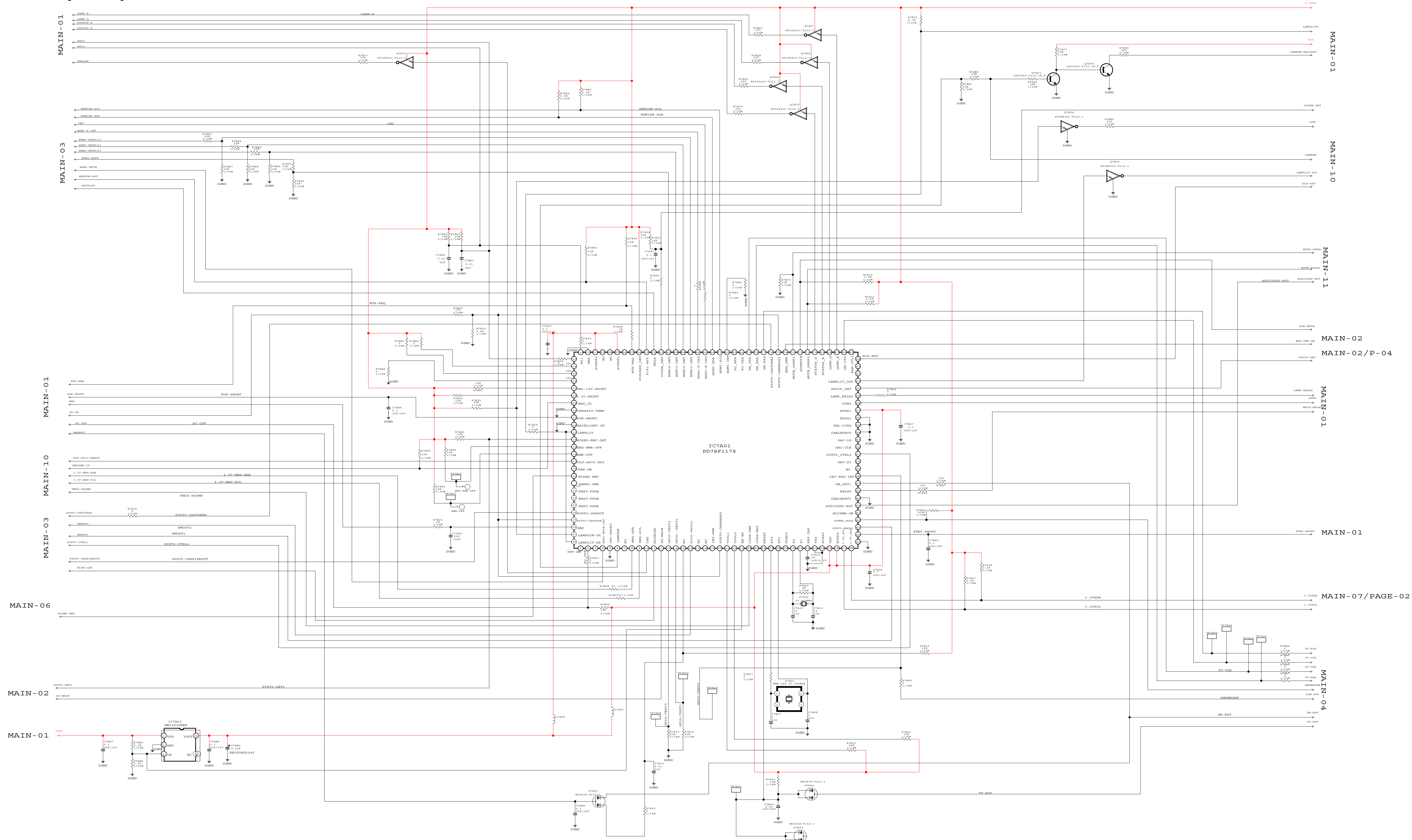
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PG 15...MISC (CONT/ PREAMP/ SBL/ FRONT/ HDMI/ SW- LAMP/ LBD)	

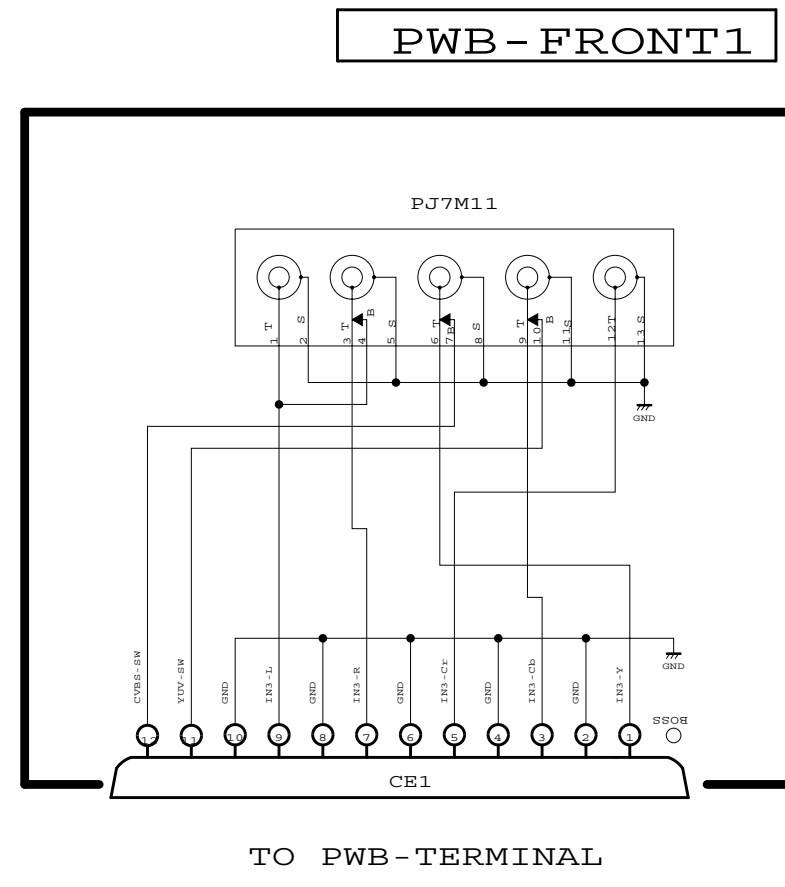
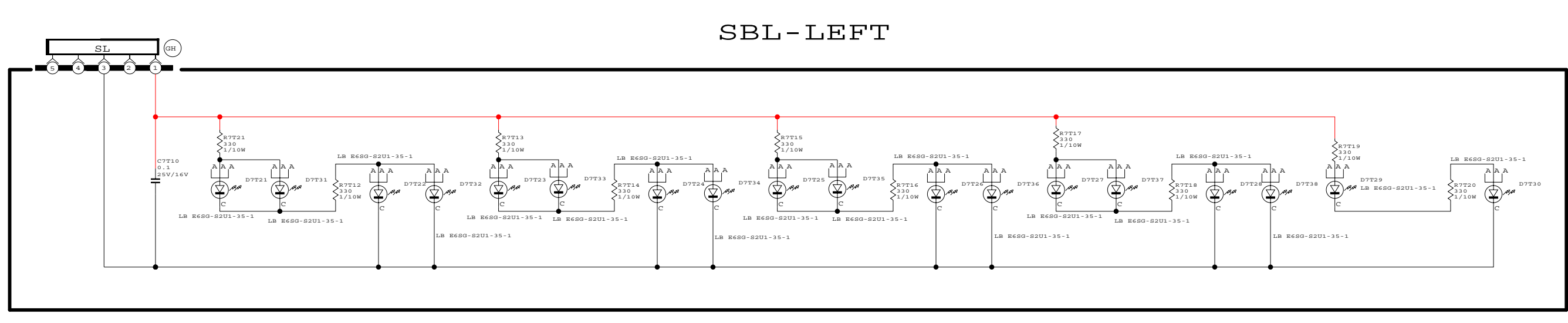
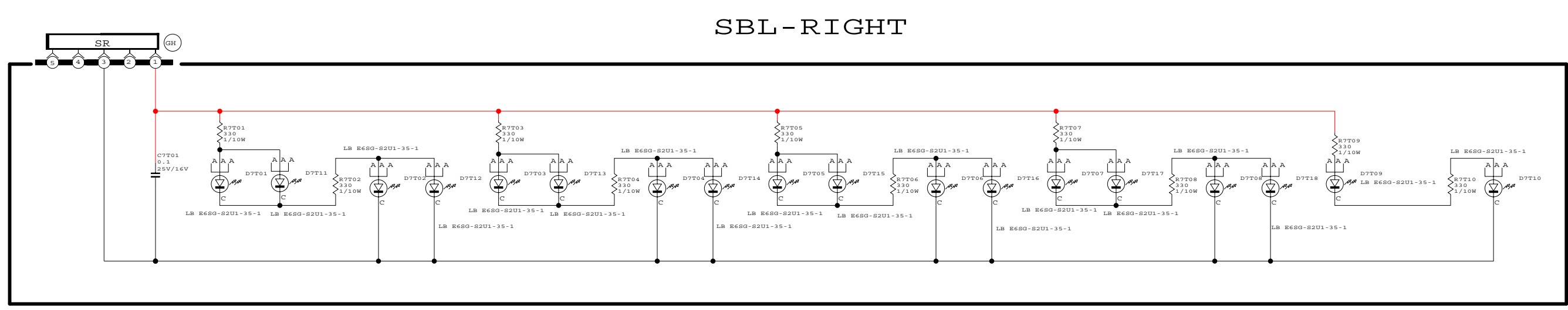
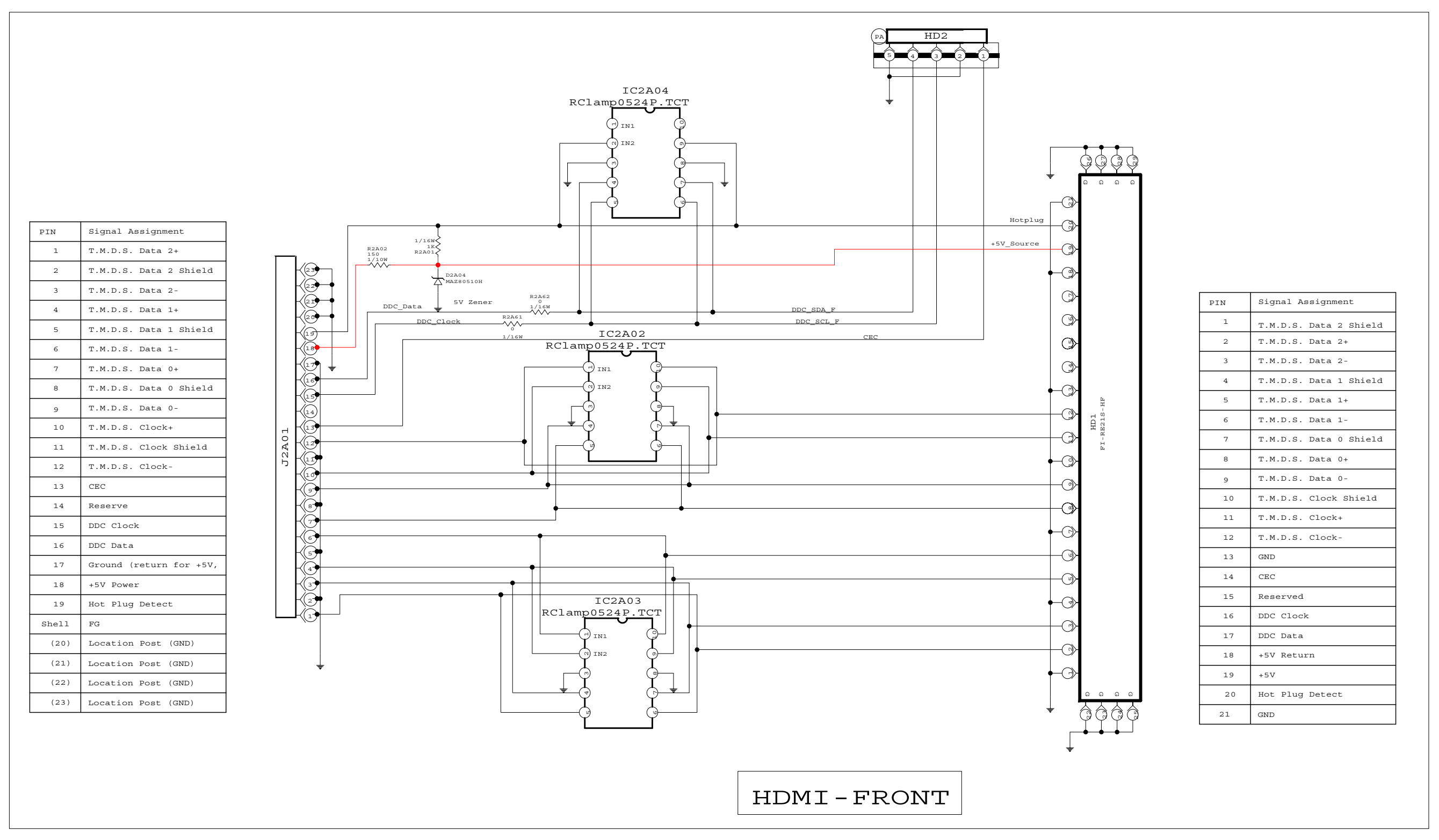
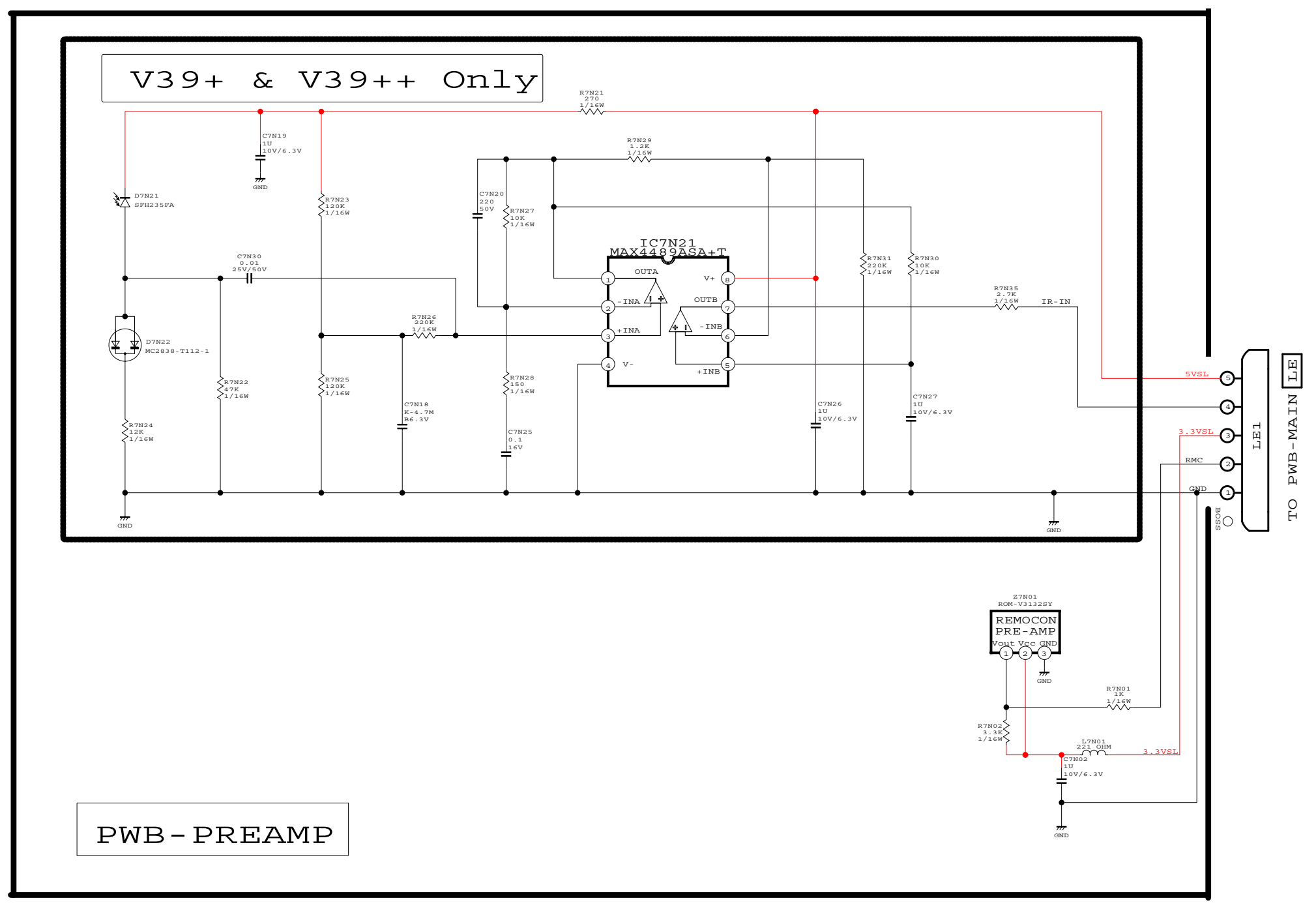
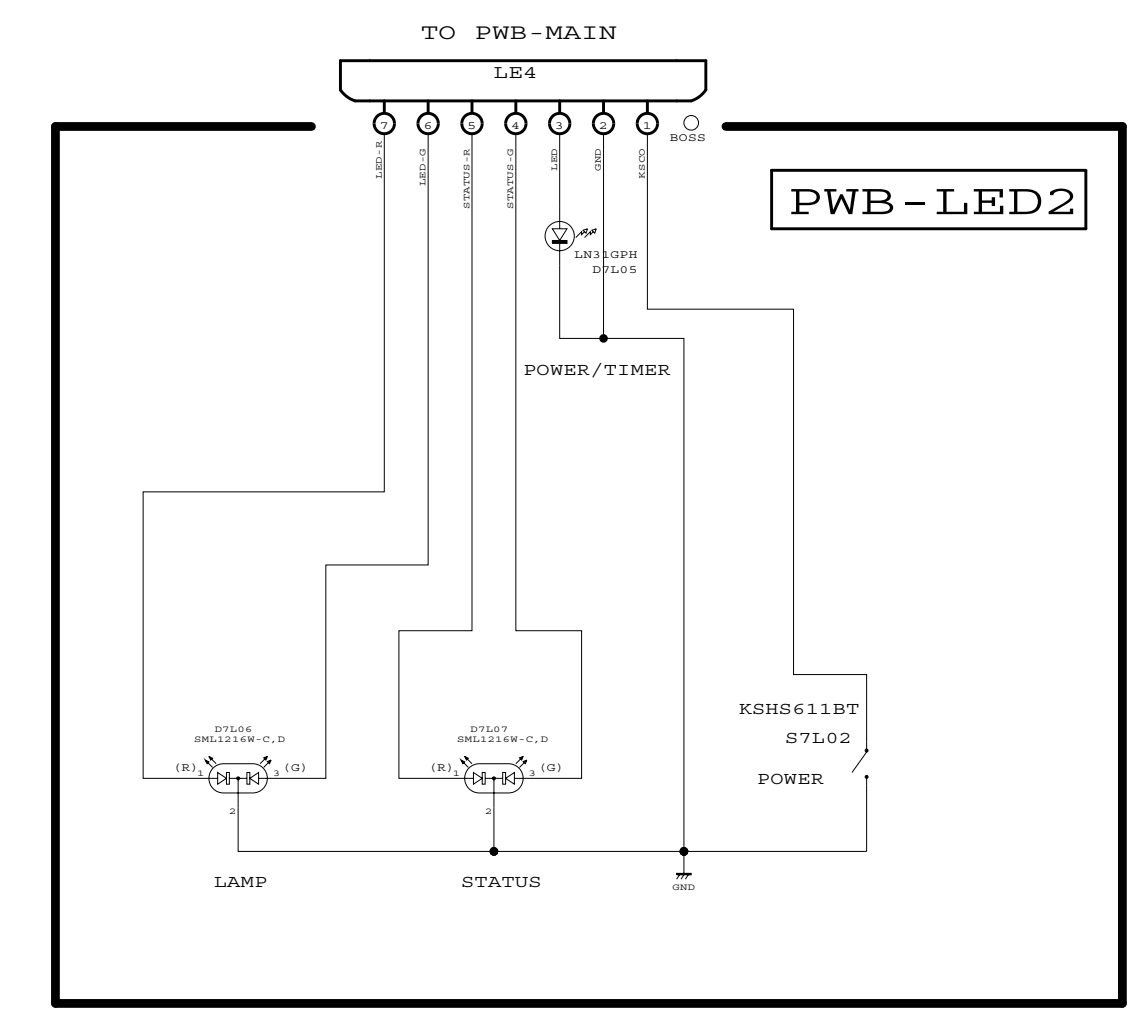
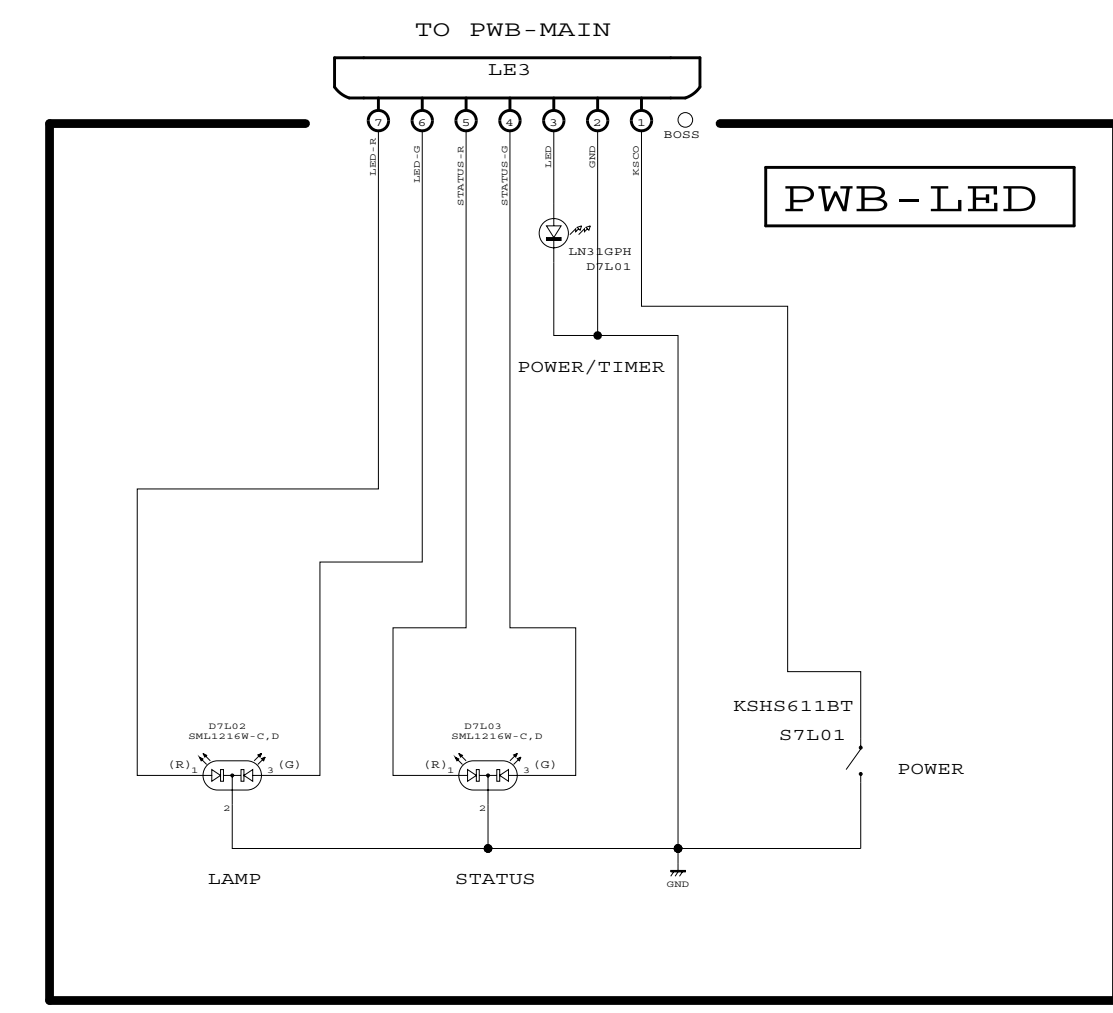
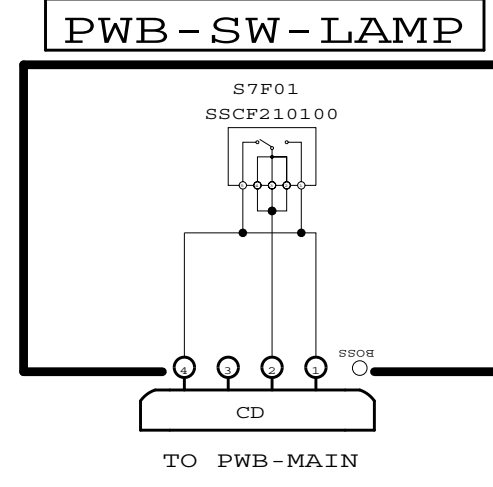
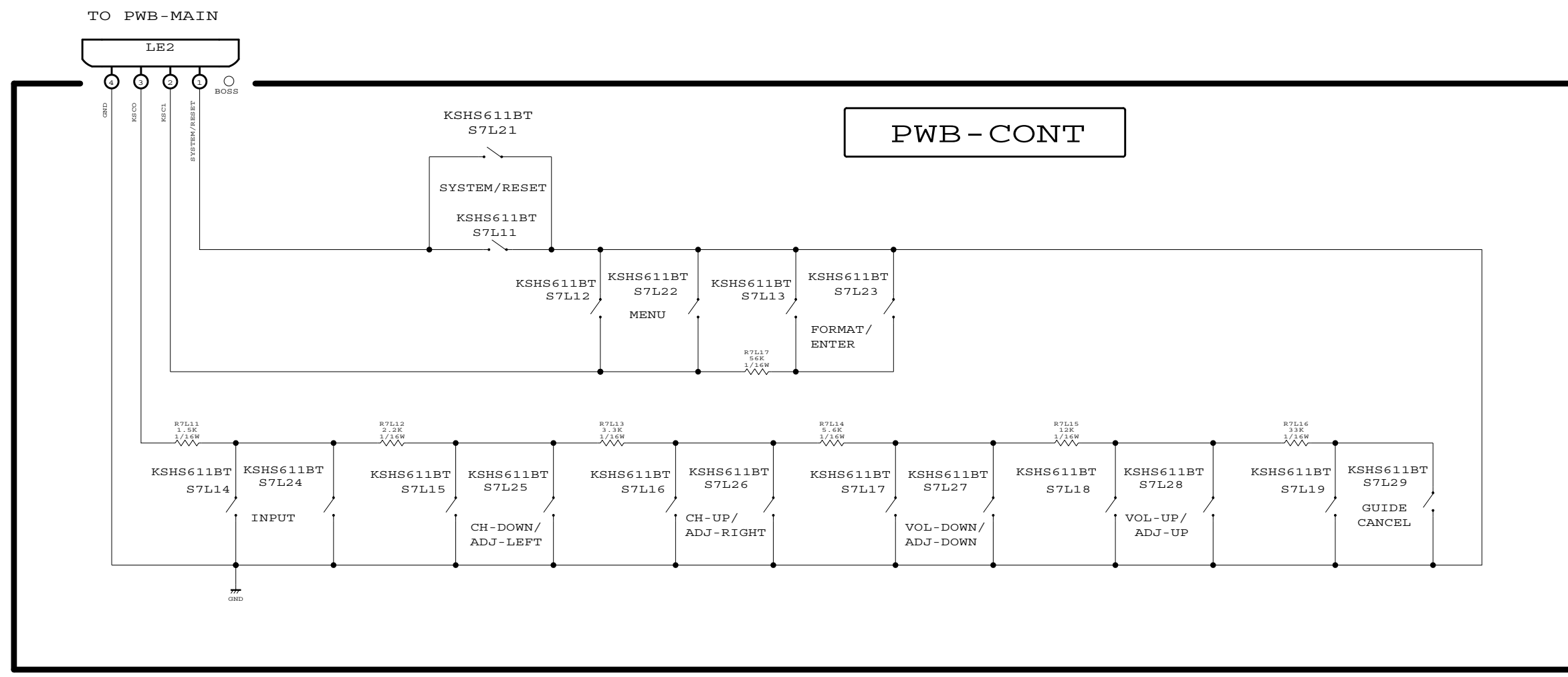
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(UPDATE CONNECTOR)

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